

St. Leger, Geoffrey

Access DB# 117889

## SEARCH REQUEST FORM

Scientific and Technical Information Center

143

Requester's Full Name: Gwen Liang Examiner #: 79180 Date: 3-26-04  
Art Unit: 2172 Phone Number 301-53985 Serial Number: 10613097  
Mail Box and Bldg/Room Location: CPK II 4B2 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Maintaining Interoperability of Systems that use Different Metadata

Inventors (please provide full names): MORGAN, Oliver; BINGHAM, Timothy;  
RANSDELL, Thomas R.

Earliest Priority Filing Date: 12-07-2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

concept: (See attachment A)

Drawing: (See attachment B) to support A3-A4

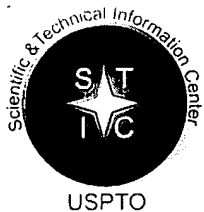
Claims: 1, 4, 13 (See attachment C)

Definition: - (See attachment D) to support claims 1, 4

\*Assignee: Avid Technology, Inc.

### STAFF USE ONLY

\*\*\*\*\*  
Staffer: Geoffrey St. Leger Type of Search  
Searcher Phone #: 308-7800 NA Sequence (#) \_\_\_\_\_ STN \_\_\_\_\_  
Searcher Location: 4B30 AA Sequence (#) \_\_\_\_\_ Dialog ✓  
Date Searcher Picked Up: 4/14 Structure (#) \_\_\_\_\_ Questel/Orbit \_\_\_\_\_  
Date Completed: 4/5/4 Bibliographic ✓ Dr. Link \_\_\_\_\_  
Searcher Prep & Review Time: 90 Litigation \_\_\_\_\_ Lexis/Nexis \_\_\_\_\_  
Clerical Prep Time: \_\_\_\_\_ Fulltext ✓ Sequence Systems \_\_\_\_\_  
Online Time: 240 Patent Family \_\_\_\_\_ WWW/Internet ✓  
Other \_\_\_\_\_ Other (specify) ETC library



# STIC Search Report

## EIC 2100

**STIC Database Tracking Number:** 117889

**TO: Gwen Liang**  
**Location: 4B05**  
**Art Unit : 2172**  
**Monday, April 05, 2004**

**Case Serial Number: 10/013097**

**From: Geoffrey St. Leger**  
**Location: EIC 2100**  
**PK2-4B30**  
**Phone: 308-7800**

**geoffrey.stleger@uspto.gov**

### Search Notes

Dear Examiner Liang,

Attached please find the results of your search request for application 10/013097. I searched Dialog's foreign patent files, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger  
4B30/308-7800

File 275:Gale Group Computer DB(TM) 1983-2004/Apr 05  
(c) 2004 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Apr 05  
(c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Apr 05  
(c) 2004 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2004/Apr 05  
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File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2004/Apr 05  
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File 624:McGraw-Hill Publications 1985-2004/Apr 02  
(c) 2004 McGraw-Hill Co. Inc  
File 15:ABI/Inform(R) 1971-2004/Apr 03  
(c) 2004 ProQuest Info&Learning  
File 647:CMP Computer Fulltext 1988-2004/Mar W3  
(c) 2004 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2004/Mar W3  
(c) 2004 IDG Communications  
File 696:DIALOG Telecom. Newsletters 1995-2004/Apr 02  
(c) 2004 The Dialog Corp.  
File 669:New Scientist 1994-2004/Mar W4  
(c) 2004 Reed Business Information Ltd.

Set	Items	Description
S1	5234459	ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR FIELD? ? OR COLUMN? ?
S2	2180980	DIRECTORY OR DIRECTORIES OR SCHEMA? ? OR DATABASE? ? OR DATA()BASE? ? OR REPOSITOR???
S3	54202	S1:S2(5N)(MAP???? OR SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? OR CONFORM?)
S4	440588	S1(5N)(NEW?? OR CURRENT)
S5	25160	S1(5N)(OLD??? OR PRE()EXIST??? OR PREEXIST???)
S6	35554	S1(7N)(CONVERT? OR CONVERSION? OR REFORMAT? OR RE()FORMAT? OR TRANSLAT? OR TRANSFORM?)
S7	174014	S1(7N)(INSERT??? OR ADD??? OR CREAT???)
S8	661	SCHEMA? ?(5N)DIFFERENT
S9	62	S3(100N)S8
S10	34	RD (unique items)
S11	19	S10 NOT PY=2001:2004
S12	99	S3(50N)SCHEMA? ?(50N)S4:S7
S13	60	RD (unique items)
S14	47	S13 NOT (S11 OR PY=2001:2004)
S15	23511	(RULE? ? OR POLICY OR POLICIES OR FLAG? ?)(7N)(MAP???? OR SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? OR CONFORM?)
	13	S15(50N)S4:S7
	1	(S3 OR SCHEMA? ?)(100N)S16
	14	RD (unique items)
	24	S18 NOT (S11 OR S14 OR PY=2001:2004)

11/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02355911 SUPPLIER NUMBER: 58047272 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Extensibility upgrade takes XML forward: Tool features speed development, simplify maintenance. (XML Authority 1.1 schema design, conversion, and management tool) (Software Review) (Evaluation)**

Coopee, Todd  
InfoWorld, 21, 49, 70  
Dec 6, 1999

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 965 LINE COUNT: 00083

... on the XML 1.0 specification. Similar to data models, schemas are graphical representations of the vocabulary and structures that appear in documents using that **schema**. Document sets **conforming** to the same **schema** may contain **different** information but share common processing. A schema for purchase orders (POs), for example, would describe a class of documents that have very different contents (sender...

11/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02339501 SUPPLIER NUMBER: 56077241 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**XML: Ready for Prime Time. (Technology Information)**

Angel, Jonathan  
Network, NA  
Oct 1, 1999

ISSN: 1093-8001 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 4266 LINE COUNT: 00354

... prediction found on the BizTalk Web site) is that it will be difficult to get any industry to implement a common set of semantics across **different XML schemas**. On the other hand, it might be possible to narrow things down to two or three competing **schemas** per industry, then publish **maps** that would adapt these **schemas** to one another.

Business partners will find it an easy decision to adopt XML and common schemas in order to trade data with one another...

11/3,K/3 (Item 3 from file: 275)  
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02329150 SUPPLIER NUMBER: 55660341 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**May the best XML win. (Technology Information)**

Taggart, Murdoch Mac  
Computer Weekly, 25  
August 26, 1999

ISSN: 0010-4787 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 988 LINE COUNT: 00088

... an XML server framework intended to encourage the take-up of XML by facilitating business data interchange both through mandating certain standards and by formalising **mapping** across **different schemas**.

As Microsoft puts it, many companies are expressing strong interest in XML but as it is so flexible this is similar to expressing a strong...

11/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01908959 SUPPLIER NUMBER: 18046544 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Design and replication: issues with mobile applications. (DBMS replication)

(Part 1) (Technology Information) (Cover Story)

Programming, Glenn

IBM, n3, n3, p48(6)

Oct, 1995

DOCUMENT TYPE: Cover Story ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4207 LINE COUNT: 00343

... to generic business objects, not the company or product of the same name.) Our business objects are defined at an abstraction level above the physical **database schema**, which enables us to **map different schemas** within the same business object model.

As I mentioned before, some vendors support heterogeneity through the use of gateways. However, gateways depend on the availability...

11/3,K/5 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01848461 SUPPLIER NUMBER: 17587507 (USE FORMAT 7 OR 9 FOR FULL TEXT)

DBArtisan 2.02. (Embarcadero Technologies Inc's database administration software) (Software Review) (Evaluation)

Williams, Joseph

DBMS, v8, n11, p28(4)

Oct, 1995

DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2568 LINE COUNT: 00201

... a great utility for managing and coordinating code in a dynamic environment.

The DBArtisan copy manager is a powerful utility that facilitates the movement and **synchronization** of **database** objects. By selecting the appropriate options carefully, you can move the objects that are not already on the target database, or just migrate data while...

...also has a visual compare facility that lets you compare the schema of the target and destination databases. This facility is invoked automatically when the **schemas** of two objects are **different** and the "Prompt Before Overwriting Existing Object Definitions" checkbox is selected.

Documentation and Help

I like the online help format. Not only is there help...

11/3,K/6 (Item 6 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01833345 SUPPLIER NUMBER: 17338009 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Hybrid DBMSs offer best of both worlds. (object-oriented/relational DBMSs) (Tutorial)

Francett, Barbara

Software Magazine, v15, n8, p61(5)

August, 1995

DOCUMENT TYPE: Tutorial ISSN: 0897-8085 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2871 LINE COUNT: 00245

... of the physical data, equates it to the object model, and creates mappings between the object model and relational data.

OIS is driven by its **Schema Mapper** tool, which lets users create an object model from relational **schemas**. "OIS provides **different** ways of **mapping** tables to object hierarchies, so the object model can be tuned for particular businesses or enterprises," Keating said.

A large telecommunications firm plans to use...

11/3,K/7 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2004 The Gale Group. All rts. reserv.

02249431 Supplier Number: 58023321 (USE FORMAT 7 FOR FULLTEXT)  
**XMLSolutions Announces Beta Availability of First XML Schema Management Tool; Features Centralized Management of DTDs and XML Schemas that Facilitates Business to Business Interchange.**

PR Newswire, p5639

Dec 6, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 333

... tracked as business rules change

\* Promotes reuse of existing schemas, reducing the number of redundant,

but incompatible, schemas

\* Delivers easy side-by-side comparison and **mapping** tool for viewing like

**schemas** and DTDs

Schema Central allows an organization to set up a centralized repository of schemas, providing tools to import, generate, browse, edit, optimize, validate and manage the development of XML schemas and DTDs.

"Most large organizations have thousands of trading partners using a wide variety of **schemas** covering **different** functional areas. Without proper **schema** management, XML data exchange with these partners becomes a maintenance nightmare," says Priscilla Walmsley, VP of Development for XMLSolutions.

Through this announcement, XMLSolutions seeks companies...

11/3,K/8 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01626379 Supplier Number: 48376540 (USE FORMAT 7 FOR FULLTEXT)  
**webMethods Announces B2B Integration Server For Business-To-Business E-Commerce**

PR Newswire, p0324LATU035

March 24, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1282

... Server provides realtime mapping between different XML and HTML document formats and the expected XML format for each service. As a result, XML-based services **conforming** to **different** DTD **schemas**, such as the emerging ICE and XML-EDI standards, can be readily integrated.

And, WIDL insulates applications from being coded to particular XML document structures...

11/3,K/9 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07394406 Supplier Number: 62202312 (USE FORMAT 7 FOR FULLTEXT)  
**Management tools and back-end services; X.500 directories offer more features, but LDAP-only directories are easier to set up and manage. (Software Review) (Evaluation)**

Snyder, Network World Test Alliance Joel

Network World, p86

May 15, 2000

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Tabloid; Trade  
Word Count: 1719

... the LDAP server and NDS made LDAP anything but transparent. For example, to change the NDS schema, you use the standard GUI, which launches a **schema** editor. It requires a **different schema** description entirely to change the LDAP schema, which then has to be manually **mapped** (yen) **attribute** by **attribute** (yen) from NDS to LDAP. Because NDS field types are different from LDAP field types, we had to check each field type manually to see...

11/3,K/10 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07054731 Supplier Number: 58467890 (USE FORMAT 7 FOR FULLTEXT)  
**MidSystem: The Leader In Workflow Management.**  
Tribute, Andrew  
The Seybold Report on Publishing Systems, v28, n22, pNA  
August 23, 1999  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 5692

... communicates with the Apple operating system to interact with the application. With PC clients, communication takes place via DLLs (dynamic link libraries). The MCL Server **maps** itself to the **database**, which reflects the status of ads, pictures and pages. When producing publications such as catalogs, it can specifically track price panels, changes, etc.

In **different** situations, the **schema** for the database changes. There is a standard core of system tables, and specific utilities to describe the objects being managed. All of these managed...

11/3,K/11 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06938886 Supplier Number: 58585427 (USE FORMAT 7 FOR FULLTEXT)  
**Novell utility eases directory integration.(Product Development)**  
Connor, Deni  
Network World, p17  
Jan 10, 2000  
Language: English Record Type: Fulltext  
Document Type: Tabloid; Trade  
Word Count: 205

The company is previewing TREEINT, a directory integration utility, in the January release of its Novell Developer Kit.

TREEINT integrates directories with **different schemas** at any location in the directory tree, thus expanding the opportunity for directory integration. At present, Novell distributes DSMERGE, a utility that lets network professionals merge directories that have identical structures or schemas only at the root of the directory.

TREEINT analyzes directory trees, compares their **schemas** and attempts to **reconcile** any differences. It then backs up the data in the new tree, installs the new directory into the existing tree and restores the data.

"TREEINT...

... particularly useful for companies that want to repartition their directories or for companies that have purchased other companies and need to merge directories with **different schemas**," says Ed Partridge, IS manager for medical component manufacturer Zevex in Salt Lake City.

Novell declined to comment on whether the utility will ship with...

11/3,K/12 (Item 4 from file: 16)

11/3,K/13 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06105723 Supplier Number: 55077840 (USE FORMAT 7 FOR FULLTEXT)  
**Synchronization Or Replication? IT Managers Need Both For Now.(the Internet Engineering Task Force's LDAP Directory Update Protocol) (Net Know-How) (Technology Information) (Column)**  
Lewis, Jamie  
InternetWeek, p29  
July 5, 1999  
Language: English Record Type: Fulltext  
Article Type: Column  
Document Type: Newsletter; Trade  
Word Count: 631

... directory's contents (which means sharing schema) and all change events.

While it can occur asynchronously, replication is a more granular, real-time process than **synchronization**.

Simple **directory synchronization**, on the other hand, is typically an asynchronous, "bulk load" operation in which neither server is agreeing on the total state of the directory. Servers...

...common file format.

Thus, synchronization doesn't require symmetry in either directory data or product architecture. The two directories probably won't share the same **schema** and may contain significantly **different** kinds of data. Nor do they have to share interoperable security and access control subsystems. ... the levels of trust and symmetry replication requires,

11/3,K/13 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06105723 Supplier Number: 53684089 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft Jumps Into The Metadirectory Fray.(the Active Directory network directory software) (Product Development)**  
Schwartz, Jeffrey  
InternetWeek, p1(1)  
Feb 1, 1999  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 747

... Active Directory will be ubiquitous once Windows 2000 is released, there are still questions of Active Directory's scalability, management tools and its ability to **map to different schema**.

"Microsoft still has to prove itself in all of these areas," Lewis added.

Indeed, look for Microsoft to add more metadirectory capability to Active Directory...

11/3,K/14 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c) 2004 The Gale Group. All rts. reserv.

08156355 SUPPLIER NUMBER: 17474069 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Representing group technology classification and coding techniques with object oriented modeling principles.**  
Billo, Richard E.; Bidanda, Bopaya  
IIE Transactions, v27, n4, p542(13)  
August, 1995  
ISSN: 0740-817X LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 7455 LINE COUNT: 00615



... clearly at the discretion of the designer and may be impacted by such factors as cost, ease of use, and availability.

To translate from one **schema** to the next, **mapping** guidelines are necessary. Elmasri and Navathe (1994) provide detailed guidelines for **mapping** from the conceptual **schema** to each of the internal **schemas** listed in Fig. 11. **Mapping** from the external **schema** to the conceptual **schema** is sometimes more difficult because **different** formats may be used to represent the **different** external **schemas** of users (e.g., graphics, report formats, interview notes). The principles prescribed here, however, provide the **mapping** guidelines from the external **schema** to the conceptual schema by illustrating the correspondence between decision trees and the DOM representation.

8. Behavioral principles for C&C software  
Brodie and Ridjanovic...

11/3,K/15 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

02021149 53850923

#### Management tools and back-end services

Snyder, Joel

Network World v17n20 PP: 84-86 May 15, 2000

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 2339

...TEXT: the LDAP server and NDS made LDAP anything but transparent. For example, to change the NDS schema, you use the standard GUI, which launches a **schema** editor. It requires a **different schema** description entirely to change the LDAP schema, which then has to be manually **mapped - attribute by attribute** - from NDS to LDAP. Because NDS field types are **different** from LDAP field types, we had to check each field type manually to see if...

11/3,K/16 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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0111050 98-76645

#### Novell preps NDS Internet enhancements

Fogarty, Kevin

Network World v13n14 PP: 41, 43 Apr 1, 1996

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 547

...TEXT: could access information in the object, which would become a legitimate part of an NDS tree, even though the information within the object does not **conform** to the second organization's **schema**, according to Eckert.

The new object type would also let separate divisions within a corporation use **different** NDS **schema** but still remain part of the same tree.

In addition, Novell is working on an improved Access Control List function that will let net managers...

11/3,K/17 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01195732 CMP ACCESSION NUMBER: INW19990705S0057

Synchronization Or Replication? IT Managers Need Both For Now (Net Know-How)

Tom Lewis

COMPUTERWEEK, 1999, n 772, PG29

PUBLICATION DATE: 990705  
JOURNAL CODE: INW LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Gray Matter  
WORD COUNT: 632

... directory's contents (which means sharing schema) and all change

... it can occur asynchronously, replication is a more granular, real-time process than **synchronization**.

Simple **directory synchronization**, on the other hand, is typically an asynchronous, "bulk load" operation in which neither server is agreeing on the total state of the directory. Servers...

...common file format.

Thus, synchronization doesn't require symmetry in either directory data or product architecture. The two directories probably won't share the same **schema** and may contain significantly **different** kinds of data. Nor do they have to share interoperable security and access control subsystems.

Given the levels of trust and symmetry replication requires, Microsoft...

11/3,K/18 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01189669 CMP ACCESSION NUMBER: INW19990201S0001  
Microsoft Jumps Into The Metadirectory Fray  
Dorothy Schwartz  
INTERNETWEEK, 1999, n 750, PG1  
PUBLICATION DATE: 990201  
JOURNAL CODE: INW LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: News & Analysis  
WORD COUNT: 747

... Active Directory will be ubiquitous once Windows 2000 is released, there are still questions of Active Directory's scalability, management tools and its ability to **map** to **different schema**.

"Microsoft still has to prove itself in all of these areas," Lewis added.

Indeed, look for Microsoft to add more metadirectory capability to Active Directory...

11/3,K/19 (Item 1 from file: 696)  
DIALOG(R)File 696:DIALOG Telecom. Newsletters  
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00669849  
XML Could Spell Doom For EDI, Speakers Say  
Electronic Commerce  
VOL: 6 ISSUE: 8 DOCUMENT TYPE: NEWSLETTER  
BRP PUBLICATIONS  
ENGLISH WORD COUNT: 644 RECORD TYPE: FULLTEXT

(c) BRP PUBLICATIONS All Rts. Reserv.

TEXT:

...Despite the lack of current XML standards, they will be more compatible

than EDI for businesses, Falk contended. "It's much easier to **map** across  
EDI standards and **schemas** , even if they are **different** , than it's ever  
been for EDI," he said. "If you've got EDI, you're not going to throw it  
away, but it's...

14/3,K/1 (Item 1 from file: 275)  
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02425928 SUPPLIER NUMBER: 63917850 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Trip Report - Topic Maps Chart Future Course for XML in Content. (XML Europe  
2000) (Industry Trend or Event)  
A. Schuler, Liora  
Raybold Report on Internet Publishing, 4, 11, NA  
July, 2000  
ISSN: 1090-4808 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 5368 LINE COUNT: 00429

... The co-founders of Praxis, Matthew Gertner and Alun Rhydderch, were doing application development for CommerceOne, so it was natural to use CommerceOne's SOX **schema** language as the basis for a lightweight client with the application developer market in mind.

Today, developers create templates with ASP, JSP or applications like ...

...be hundreds of such templates, each requiring some degree of redundant, manual work for setup and maintenance.

The idea behind Schemantix is to let the **schema** definition do the heavy lifting for the data structures and to automate the generation of forms from the **schema**. The software automatically **creates** combination boxes from **attribute** lists and input boxes for parsable character data. Multiple occurrences become list boxes with a sub-form for new entries. The layout of the form is controlled by style sheets, and the richness of the interface is determined by the richness of the **schema** specification. The application on display in Paris used the XHTML layout for all generated forms.

Once the form is created, it can generate XML instances that **conform** to the originating **schema** or it can be fed existing XML instances that **validate** or partially populate the form.

... intends to implement W3C **Schemas**, when available. In the meantime, he uses SOX with the **schema** -adjunct written by Extensibility (<http://www.extensibility.com/saf/spec>) to provide information not standardized in SOX, such as the length of a data field...

14/3,K/2 (Item 2 from file: 275)  
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02371493 SUPPLIER NUMBER: 59426153 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Bringing NetWare, Unix into the fold - MS **services** allow peaceful  
coexistence with Win2K, but other wares are better choices for  
migration. (Software Review) (Evaluation)  
Baltazar, Henry  
PC Week, 57  
Feb 14, 2000  
DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1549 LINE COUNT: 00130

... either NDS or Active Directory. In either case, user account additions or modifications are replicated to both directories.

The first step in setting up bidirectional **synchronization** was to ... the **directory** information we wanted to replicate in Active ... and NDS,

... to decide where to set up targets (places where replicated ... would be stored) on our directories.

MSDS includes a utility that allows IT managers to control how imported object **attributes** are **mapped** into the **directory schema**. This utility is extremely important because most applications that run on NetWare extend the **schema** of NDS, thus **creating** additional objects and **attributes** that need to be manually **mapped** into Active **Directory**.

Although **directory synchronization** took place without any

... but both directories received the replicated data without  
... **schema** adjustments, IT managers should be extremely careful  
with their object mappings because valuable information can be ruined or  
lost by bad mappings.

NIS consolidation  
SFU...

14/3,K/3 (Item 3 from file: 275)

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02244028 SUPPLIER NUMBER: 53245058 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Cure for a State Of Confusion. (Product Information)**  
Chowdhry, Pankaj  
PC Week, 138(1)  
Nov 16, 1998  
ISSN: 0740-1604 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1250 LINE COUNT: 00102

... click on their e-mail address to send them a message and never get  
a response," Stratton said.

To remedy the situation, Stratton modified the **schema** of SIMS users  
within the DOE. An **attribute** was **added** that stored data on whether the  
mailbox had been checked during the last 30 days. When Via runs its  
synchronization, it checks this **new attribute**; if the value is false,  
it will publish an e-mail address in the directory. This custom solution  
... shows the surface of how...

14/3,K/4 (Item 4 from file: 275)

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02202083 SUPPLIER NUMBER: 20917963 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Business process modeling leads to web warehouse success. (tools and  
practices for building a data warehouse for a major pharmaceutical  
company) (Technology Information)**  
Zeigler, Heather; Marcous, Alexia  
e-Business Advisor, v16, n7, p14(5)  
July, 1998  
LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2771 LINE COUNT: 00240

... WarehouseArchitect to facilitate this process.

Based on business definitions from users, and their data-flow  
diagram, the developers defined a data dictionary. The data dictionary  
**mapped** new **column** names using new naming standards to the **current**  
production **column** names. Because company departments weren't integrated,  
several naming standards needed to be merged. One department called a  
column sales-code, another called the same...

... and another something like ACVTDS.

... **column** names were standardized and **mapped**, the team embarked  
on a total database design. The development team utilized a star  
**schema** based on Ralph Kimball's methodology.

Powersoft's data warehouse suite was invaluable in this process.  
Because they used ProcessAnalyst to define the business process...

14/3,K/5 (Item 5 from file: 275)

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02192431 SUPPLIER NUMBER: 20049356 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Adminstrating with Artisan. (Embarcadero Technologies' DBArtisan 4.0  
database administration tool) (Product Announcement) (Brief Article)**  
DBMS, v10, n13, p33(2)

Dec, 1997

DOCUMENT TYPE: Product Announcement Brief Article

ISSN: 1041-5173

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 327

LINE COUNT: 00031

New **database synchronization** automates the **synchronization** and migration of **databases**. It sequences and reconstructs objects to ensure that correct dependencies are maintained between them. Visual **schema**, object, and database management provides complete control over heterogeneous databases. It offers **schema** extraction capabilities and the ability to create and alter database objects. DBArtisan 4.0 documents database objects through a visual interface, as well as creating SQL. It also lets the user **add**, modify, delete, and reorder table **columns** at will to facilitate updates. Space and storage management enhances database performance and guards against system failure or corruption, DBArtisan 4.0 utilities monitor free...

14/3,K/6 (Item 6 from file: 275)

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SUPPLIER NUMBER: 20337542 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Develop multi-tiered Web applications. (SilverStream Software SilverStream)

(Software Review) (Evaluation)

McManahan, David

Databased Web Advisor, v16, n3, p30(5)

March, 1998

DOCUMENT TYPE: Evaluation

ISSN: 1090-6436

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4098

LINE COUNT: 00342

... relationships. To view the information about a relationship, open the Property Inspector (the magnifying glass icon), then click on one of the relationships. Notice the **field** labeled, "Hard relationship ( **create** foreign key)." When **creating** a new relationship, you have the option to create a foreign-key relationship, which is enforced at the database, or as a "soft join." A...

... this designer doesn't display some (or all) of the existing relationships, it's possible that SilverStream isn't aware of the relationships. The **Synchronize database schema** button on the Administer Server's **Database** tab **synchronizes** the **database schema** with SilverStream and adds the relationships to the Designer.

Form Designer--A form is similar to a window in most other programming environments. From the...

14/3,K/7 (Item 7 from file: 275)

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02124534 SUPPLIER NUMBER: 19913554 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Finding your way. (using directory services) (Technology Information)

Linthicum, David S.

DBMS, v10, n12, p54(5)

Nov, 1997

ISSN: 1041-5173

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3173

LINE COUNT: 00262

... the ability to provide global directory services as well. Directory Server also lets administrators combine master servers into replicas that can make up all master **directories**, thus providing users with a **map** of the entire **directory**.

**Directory** Server provides a customizable database so that administrators can **add** keys or **fields**. The trick is to customize the directory, leaving the LDAP standard attributes alone. LDAPv2 won't know what to do with a nonstandard directory **schema**.

NDS

Novell Directory Service (NDS) provides Novell-based networks with a global view of the entire enterprise Novell NetWare network. NDS is able to

14/3,K/8 (Item 8 from file: 275)  
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02020487 SUPPLIER NUMBER: 19011026 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
From NOS to net. (six directory services reviewed) (includes related  
article on LDAP protocol) (Network Edition) (Software Review) (Evaluation)  
Pompili, Robert  
PC Magazine, v16, n2, pNE1(7)  
Jan 21, 1997  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 5203 LINE COUNT: 00423

... into larger read-only replicas that can be combinations of any or  
all Master directories. By accessing these read-only replicas, users can  
get a **map** of the entire **directory**.

The extensible directory structure of Netscape servers lets you **add**  
your own keys or **fields**. This flexibility is nice, but it can be a  
potential hindrance to making LDAP a standards-based directory service  
since LDAP 2.0 is incapable of interpreting unknown **schema**. Initially,  
Netscape is hoping to take the middle ground by providing a **schema** based  
on the X.500 Person document.

Zoomit Via

While Netscape provides a directory service based on standards, Zoomit  
... list and up...

14/3,K/9 (Item 9 from file: 275)  
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01966967 SUPPLIER NUMBER: 18564799  
Erwin/ERX version 2.5; ER/1 version 1.1. (data modeling tools from Logic  
Works and Embarcadero Technologies, respectively) (Software  
Review) (Evaluation)  
Gillespie, Kelly  
DBMS, v9, n9, p31(5)  
August, 1996  
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3404 LINE COUNT: 00254

... ERwin/ERX surrounds you with the tools you need to develop your  
model quickly. You will notice a floating toolbox that lets you click and  
**create** independent and dependent entities, edit **attributes** of entities,  
specify subtype relationships, and **create** identifying, non-identifying,  
and non-specific relationships.

Above your model is a toolbar with buttons for DB **Sync**, connect to  
**database**, changing the target server, and subject area editor. The most  
useful are the buttons for switching between entity level, attribute level,  
relationship level, and physical **schema** level. After you click on the  
... select the Independent Entity icon tool, you simply click on  
... page to create your first...

14/3,K/10 (Item 10 from file: 275)  
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01934285 SUPPLIER NUMBER: 18272601 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
ERwin/ERX. (Logic Works Inc) (one of three evaluations of

entity-relationship diagramming software in 'ER Diagramming Tools Power Through Perspective') (Software Review) (Evaluation)

Author, Brian

IC Magazine, v15, n10, p194(2)

May 28, 1996

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1004 LINE COUNT: 00083

... enforce data modeling, this feature is beside the point. But for those using simple database utilities like Microsoft SQL Enterprise Manager to modify the physical **database** directly, two-way **synchronization** provides a tool to straighten out all those outdated logical models.

The only hitch we encountered during the resynchronization of the logical model was an error message telling us that we could not **add** a **column** with Not Null as an **attribute**. The workaround involved backing up our data, manually selecting the affected tables, and issuing a Generate **Schema** with Drop command. This is a weak solution compared with S-Designor's method of automatically renaming the old table and copying the existing data...

14/3,K/11 (Item 11 from file: 275)

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14-4817 SUPPLIER NUMBER: 17155740 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Tools and utilities. (1995 Database Buyer's Guide and client/server sourcebook) (Buyers Guide)

ICM, v8, n6, p72(29)

May 15, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 45154 LINE COUNT: 03869

... tables and computes candidate foreign/secondary-key join paths between a parent table's primary key and a dependent tables candidate alternate key. Displays a **map** of the **schema** 's detailed structure using a field-as-row format wherein individual foreign/secondary-key join paths extend from a parent tables ordered set of primary-key fields to a dependent table's ordered set of alternate-key fields. Designers view the total **schema** or see individual join paths in detail. They customize the **schema** by revising table names, indexing the keys of needed join paths, and defining RDBMS-suitable referential constraints for implemented foreign-key join paths. Outputs include print-outs of the dependency model, the model's underlying business rules, the model's data dictionary, a **map** of the **database** 's total structure, and an ASCII **field** and printout of the DDL for **creating** all tables and keys and enforcing declarative referential integrity. Reader service #661.

Translator 1.0

Excel Software, Marshalltown, IA

615-752-5359

Automates the generation...attributes such as field names, and value... Record and field filtering are available, as well as... selection of data **transformations** that let users **add new fields** for the **transformed** data. Requires DOS 3.0 or later, a 286 processor, 450K of memory, and between 800K and 3.5MB of disk space (depending on drivers...

...DDI-Transform

SDLC Technologies Inc., Toronto, Ontario, CANADA

416-620-9995; 800-688-7352

Through selective addition, deletion, and renaming of target, source table, or **columns**, DBAPort offers modifiable, automatic **conversion**, copy management, and reengineering of database-specific DDL **schema**, data, views, and grant/ revoke privileges among multiple database vendor platforms. Users can choose between a Windows or command-line character interface. Sup, ported database...



...Gupta's SQLBase, Informix, Sybase SQL Server, XDB, and DB2. Logs into a connectable source database and reads the vendor system tables to determine the **schema** definition. Then, by **mapping** inconsistent data types, it creates the target database and populates it with all or part of the source data. Allows online backup or duplication of database table and column **schemas** on active systems, and automates the movement of databases from development and quality control to production. Reader service #673.

DEC Data Distributor 6.1

Digital...

14/3,K/12 (Item 12 from file: 275)

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01688545 SUPPLIER NUMBER: 15356060 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Tools and utilities. (1994 Database Buyer's Guide and Client/Server**

**Sourcebook) (Buyers Guide)**

DBMS, v7, n6, p63(29)

June 15, 1994

DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 46074 LINE COUNT: 03903

... and Windows, \$10,000-\$38,000.

Transform N Systems, Bellevue, WA 206-450-0815

Through selective addition, deletion and renaming of target, source table, or **columns**, **transform** offers modifiable, automatic **conversion**, copy management, and reengineering of database-specific DDL **schemas**, data, views, and grant/revoke privileges among multiple database vendor platforms. Users can choose between a Windows or command-line character interface. Supported database platforms...

...Gupta's SQLBase, Informix, Sybase SQL Server, XDB, and DB2. Logs into a connectable source database and reads the vendor system tables to determine the **schema** definition. Then, by **mapping** inconsistent data types, it creates the target database and populates it with all or part of the source data. Allows online backup or duplication of database table and column **schemas** on active systems, and automates the movement of databases from development to quality control to production.

DEA TOOLS

AdHawk MITI, Long Beach, CA 310-424...

14/3,K/13 (Item 13 from file: 275)

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01688544 SUPPLIER NUMBER: 15343968 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Database conversion tool gets Windows interface. (N Systems' Transform)**

**(New Products) (Brief Article) (Product Announcement)**

Windows-DOS Developer's Journal, v5, n5, p76(1)

May, 1994

DOCUMENT TYPE: Product Announcement ISSN: 1059-2407 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 205 LINE COUNT: 00017

... the system catalogs and determine the scheme definitions directly. Transform allows design and data changes from a development database to be deployed in a production **database**. Transform **maps** inconsistent source data types to defaults or user defined data types in the target database. The product also allows changes to the **schema** objects and data types with online migration, archiving, and renaming of source/target tables, **views**, and **columns**.

**Transform** costs \$3,495 for the base system and an additional \$795 for support for each database. For more information, contact N Systems, 2300 103rd Avenue...

14/3,K/14 (Item 14 from file: 275)  
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01613921 SUPPLIER NUMBER: 13901763 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tools and utilities. (software packages that help database developers  
prototype and design applications, query, and create help systems, among  
other uses) (1993 Database Buyer's Guide Special Issue) (Buyers Guide)**  
DBMS, v6, n7, p63(33)  
June 15, 1993  
DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 45702 LINE COUNT: 03876

... for pricing. Circle reader service #678.  
DBAPort N Systems, Bellevue, WA 206-450-0815  
Through selective addition, deletion, and renaming of target, source  
table, or **columns**, DBAPort offers modifiable, automatic **conversion**,  
replication, and reengineering of database-specific DDL **schema**, data,  
views, and grant/ ...SQL-Base, Informix, Sybase, SQL Server, XDB, and DB2.  
DBAPort logs into a connectable source database and reads the vendor system  
tables to determine the **schema** definition. Then, by **mapping**  
inconsistent data types, DBAPort creates the target database and populates  
it with all or part of the source data. DBAPort also allows online backup  
or duplication of database table and column **schema** on active systems, and  
facilitates the movement of databases from development to quality control to  
production. Call for pricing. Circle reader service #679.  
dbLoader Rapid...

... minute. The high-speed conversion tool is practical for 4th  
Dimension users who need quick access to dBASE, FoxBASE, and Clipper data.  
dbLoader Rapid **converts** all dBASE-compatible **field** types, including  
character, memo, numeric, date, and logical to their 4th Dimension  
equivalents. \$99.99.  
dbLOADER Software Interfaces, Houston, TX 713-492-0707  
Loads data...

14/3,K/15 (Item 15 from file: 275)  
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01354888 SUPPLIER NUMBER: 08213562 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**4GL faces a rosy forms-based future. (Uniface looks set to become a leading  
generator of forms-based applications)**  
Butler, Martin  
DEC User, p55(2)  
Feb, 1990  
ISSN: 0263-6530 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1500 LINE COUNT: 00114

... not permit more than one customer to be specified for an order.  
Here the one is within the many.  
THE DICTIONARY. Before forms can be **created** it is necessary to  
define **fields**, tables and other entities within the dictionary. Uniface  
**conforms** to the Ansi/ ISO three- **schema** architecture. This means that a  
schema is defined by three separate layers. The first layer is an internal  
**schema** that corresponds to the physical definition of files, tables,  
indexes and other necessary elements. However, these elements are not known  
by the next layer, the conceptual **schema**, where the logical entities that  
result from data analysis are defined. These include domains, fields,  
entities (the logical representations of database tables) and the  
relationships between entities. Once these have been defined, it is a  
simple matter to create the third layer, external **schemas**, which  
correspond to the transactions that people actually wish to carry out. In  
Uniface external schemas correspond to a form.  
DATABASES. Uniface is one of...

14/3,K/16 (Item 16 from file: 275)  
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01239421 SUPPLIER NUMBER: 06250128 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The PC-IDMS alliance. (Integrated Data Management System)  
Topper, Andrew  
PC Tech Journal, v6, n3, p104(15)  
March, 1988  
ISSN: 0738-0194 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
PAGE COUNT: 6854 LINE COUNT: 00539

... useful in all stages of program development.  
TAB allows for use of the standard IDMS variables \$RESPONSE (or \$R)  
and \$MESSAGE (or \$M) on a **map** as well as **fields** on **database** ( **schema**  
) and work records. The \$RESPONSE variable holds the last character entered  
by the user, while \$MESSAGE displays standard messages to the screen.  
Generating maps in...

...the process used in Cullinet's OLM. Maps are accessible from the main  
menu and can be generated by typing a G in the action **field** within the  
field selection screen. The developer **creates** the layout, associates  
the **fields** with database or work record elements, and assigns its  
**attributes**. **Map** generation uses dictionary records and elements for  
field definitions and **creates** a load module in the dictionary to be used  
at runtime.

Once maps have been designed and generated, they do not need to be  
regenerated at runtime without the need for special commands in the dialog.  
The runtime system also provides standard error control and screen  
**attribute** handling routines. **Map** and dialog names are determined by the  
developer and, like IDMS, are limited to eight characters. No two dialogs  
can have the same name, but...

...IDMS's OLM, supporting all major screen characteristics. One potential  
incompatibility can occur if the edit and code table fields do not match  
exactly the **fields** do not match **schema** and **map**. For example, assume  
that a one-character alphabetic **field**, defined in the IDD, is **added** to  
a **schema** record and later used on a map. A table is associated with this  
**field** so that only certain values can be entered via the on-line program.  
This table, however, is **created** with an alphanumeric **field** type because  
TAB has no mechanism to set up edit or code tables using alphabetic **fields**

Therefore, when the **map** and dialog are generated, no values,  
including the ones set up in the table, can be entered, and an error  
message displays the **map field** in error. If the developer has not  
established a key that is to be executed on edit errors, the user will have  
to reboot the...

...mainline program that is called from a menu or from another dialog. TAB  
also provides an equivalent to IDMS's IDMSBGEN utility, allowing multiple  
batch files-- **maps**, dialogs, and/or **schemas**--to be regenerated from within  
a batch file. These files can be saved and executed from within the batch  
generate utility, which keeps a log...

...options for caching, speedup, and oversize dialog generation make  
efficient use of PC resources. Caching allows the developer to use cache  
buffers for frequently accessed **fields** in a dialog. Speedup **creates** a  
dialog profile that enhances the generation speed of medium to large  
dialogs. For dialogs exceeding 1,000 lines of code, the oversize option  
allows...

14/3,K/17 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod. Annou. (R)  
(c) 2004 The Gale Group. All rts. reserv.

01123 Supplier Number: 68013945 (USE FORMAT 7 FOR FULLTEXT)

**Datawatch Offers Free, Fully Functional Beta Release Version of VortexXML;  
VortexXML Allows for Easy Conversion of Structured Text Data Output into  
Valid XML.**

Business Wire, p2299

July 29, 1998

Language: English Record Type: Fulltext

Article Type: Newswire; Trade

Article Number: 793

... files and SDF files.

VortexXML uses two distinct modes of operation: input and output. The input mode is responsible for the extraction of data, the **creation** of calculated **fields** and **creation** of the hierarchy and relationships in the data. The output mode is responsible for **mapping** of data to the **attributes** and elements in a DTD (and soon from Microsoft XDR and W3C XSD schemas ) and the validation and export of the XML data.

Once defined, these input and output rules may be saved in a profile file for use...

14/3,K/18 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01684614 Supplier Number: 50207126 (USE FORMAT 7 FOR FULLTEXT)

**Visible Now Shipping EasyER/EasyOBJECT 2.0.**

Business Wire, p7291003

July 29, 1998

Language: English Record Type: Fulltext

Article Type: Article

Article Type: Newswire; Trade

Article Number: 1184

... database views gives users greater flexibility in designing relational databases. You can select columns from other tables, rename the columns to meet your needs, define **column** expressions, and **create** a table that contains only the information you want. Using the View Editor dialog box, you can fully define Views and then add, delete, move, and edit View objects on charts, and include them when you generate your database **schema** . Alternately, you can enter or edit SQL View query statements directly using the User Defined SQL option available from the View Editor.

-- Compare & Alter: Compare and Alter technology compares your existing database structure with a current (physical) model in EasyER/EasyOBJECT then generates Alter statements to **synchronize** the **database** with the design in the model. Now you can easily perform iterative database design and update a database to match your model, without losing existing...

14/3,K/19 (Item 3 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01609624 Supplier Number: 48299315 (USE FORMAT 7 FOR FULLTEXT)

**TIBCO Reveals TIB/MessageBroker For Event-Driven Content-Based Routing and Transformation.**

Business Wire, p2170018

July 29, 1998

Language: English Record Type: Fulltext

Article Type: Newswire; Trade

Article Number: 840

... features of TIB/MessageBroker are:

- Integration of TIB/Rendezvous, TIB/ETX and ODBC-compliant message systems, as well as tabular file input and output channels

- Mapping of input fields into output fields
- Mapping of input route and/or fields to output route
- Field transformation expressions
- Content routing expressions
- A GUI for defining and managing mapping, transformation, content routing test, input/output channel and output route for each MessageBroker instance
- Basic message schema definition and use of the schema in message presentation and transformation.

-0-

Gartner Group, a leading technology consulting firm, estimates the market for message brokers in general will grow from \$235...

14/3,K/20 (Item 1 from file: 636)  
 DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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48176833 Supplier Number: 48176833 (USE FORMAT 7 FOR FULLTEXT)  
 AVG SALES & MARKETING: New GoldMine 4.0 adds back end scalability with re-hosting to SQL databases  
 M Presswire, pN/A  
 Nov 15, 1997  
 Language: English Record Type: Fulltext  
 Document Type: Newswire; Trade  
 Word Count: 1783

... retrieval requirements can now enjoy "one-stop shopping" for all their e-mail.

Improved Synchronisation

GoldMine 4.0 now offers a significantly simplified and enhanced field level replication or synchronisation process. The new replication logic tracks and manages field level updates for each field in each record, across all data structures. This ensures that all contact record and calendar changes are shared between users...

...in data structures, lookup tables and screen customisations. Advanced Internet replication via direct IP to IP connections and the new sub-license docking and undocking schema in GoldMine 4.0 dramatically increase replication speed and flexibility. In addition, GoldMine 4.0 features a new Synchronisation Wizard, allowing users to store dialling...

14/3,K/21 (Item 2 from file: 636)  
 DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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48119097 Supplier Number: 48119097 (USE FORMAT 7 FOR FULLTEXT)  
 WINSOFT PRODUCTS: WinSoft introduces DBArtisan 4.0  
 M Presswire, pN/A  
 Nov 12, 1997  
 Language: English Record Type: Fulltext  
 Document Type: Newswire; Trade  
 Word Count: 943

... Oracle and Sybase databases in one session from a single point." DBArtisan features hundreds of enhancements all designed to increase performance or ease of use.

-- Database synchronisation automates the synchronisation and migration of databases. It sequences and reconstructs objects to ensure that correct dependencies are maintained between them.

-- Visual Schema, Object and Database Management provides complete control over heterogeneous databases. It offers schema extraction

capabilities and the ability to create and alter database objects. DBArtisan 4.0 documents database objects through a visual interface, as well as creating easily referenced SQL code. It also allows the user to add , modify, delete and reorder table columns at will to facilitate flexible updates.

-- Space and Storage Management enhances database performance and protects against system failure or corruption, DBArtisan 4.0 utilities

14/3,K/22 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07304083 Supplier Number: 61907215 (USE FORMAT 7 FOR FULLTEXT)  
Novell tool lets users customize directory services. (Product Announcement)  
Connor, Deni  
Network World, p21  
May 1, 2000  
Language: English Record Type: Fulltext  
Article Type: Product Announcement  
Document Type: Tabloid; Trade  
Word Count: 481

Dubbed **ScheMax** , the software reads the structure or **schema** of Novell Directory Services (NDS), **maps** it and lets customers **add** , change or delete directory **attributes** and write utilities to manage the directory or its user, printer or network objects. For instance, NDS contains objects for users called user objects, which may contain details or attributes about the user, such as telephone number, address and user name. **ScheMax** lets administrators add objects to the NDS **schema** that are customized to their organization or delete objects they may not use.

"The bottom line is you can tweak the NDS **schema** and do anything you want when it now," says Gary Porter, network manager for the University of Kentucky in Lexington, Ky. "You can also update information immediately without writing any code."

**ScheMax** also lets users set policies for directory changes and maintenance.

"My interest in **ScheMax** will lie principally in how well it will help me with routine maintenance in a standard directory services environment, not so much in all the ways it can alter the **schema** ," says Gerald Reynolds, IS director for the Central California Conference of Seventh-day Adventists in Clovis, Calif. "A stable, clean, well-maintained directory is more important to me than the ability to add bells and whistles to it."

Novell acquired **ScheMax** from its developer, directory management company Netoria, in 1999.

**ScheMax** lets customers without programming knowledge **add** **attributes** such as telephone number or PC inventory tag number to the directory.

Until now, Novell sold **ScheMax** for \$4.50 per user. It is the first stand-alone tool Novell has given away. The company has met with a favorable response from users who have asked for free directory tools or free NDS for years.

" **ScheMax** was rather expensive before," says Porter, who wants to encourage Novell to provide more free software. "I would love to see Novell provide (NetWare utility...

14/3,K/23 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

0140491 Supplier Number: 55393579 (USE FORMAT 7 FOR FULLTEXT)  
Three for the Road. (Software Review) (Evaluation)  
Backman, Dan  
Network Computing, p54  
August 9, 1999

Language: English Record Type: Fulltext  
Document Type: Evaluation  
Document Type: Magazine/Journal; Trade  
Word Count: 1436

... domain. They store desktop, application and user registry information in a common directory tree, which can be located on a file server. While most NOSes **map** a user's home **directory** to a specified server volume, Microsoft takes the home directory concept a step further by **adding** a profile **attribute** in the Windows NT 4.0 domain **schema**. In addition to specifying an **attribute** that **maps** a user's home **directory** to a specific drive letter, it redirects the user's "profile" (a directory tree containing the user's portion of the registry hive as well...

14/3,K/24 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05561786 Supplier Number: 48425314 (USE FORMAT 7 FOR FULLTEXT)  
**PLATINUM, BMC & Tivoli Bring Enterprise Database Management Down To Earth**  
Nance, Barry  
Network Computing, p96  
April 15, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 3656

... DB-Alter gave us the ability to modify more database attributes than we could handle by using the SQL syntax native to the RDBMS. We **inserted** a **column** in the middle of a table by simply clicking on a button and specifying the **new** column's **attributes**. DB-Alter analyzed the effect of **adding** the midrow **column** and generated an optimized change script.

BMC's PATROL supports the same databases as PLATINUM Enterprise DBA. Across our Adaptive Server, Oracle and SQL Server...

...launching pad for the other PATROL tools. BMC says DB-Voyager also supports DB2 Common Server, DB2 for MVS and Informix. DB-Voyager extracted database **schemas** onto our local workstation and let us work with the copies, an approach BMC says reduces network traffic. We didn't agree, because experience has shown that even highly complex **schemas**, in contrast to database content, don't require much bandwidth.

With DB-Change Manager, we migrated several **schema** changes to our multiple databases, compared database versions and performed database object version management. We also used it to **synchronize** two versions of a **database** object and an entire database. DB-Change Manager hid differences between databases when we asked it to work with multiple database instances, and it provided...

14/3,K/25 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05561786 Supplier Number: 48344715 (USE FORMAT 7 FOR FULLTEXT)  
**PowerMart hits bull's-eye for enterprise data marts**  
Biggs, Maggie  
InfoWorld, p128  
March 9, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 604

... marts capable of supporting complex decision support applications. PowerMart's tools fall broadly into three areas. The Designer tools enable the creation of data-mart **mapping** and transformations. The **Repository** holds data-mart definitions, and the Server processes data

extractions, transformation, and loading.

I found an included preinstallation worksheet to be a helpful mechanism to...

...began by modeling my data marts.

The modeling process included defining data source and target definitions (10 and five tables maximum, respectively), identifying what source **fields** are **mapped** to what target **fields**, and defining how the data will be **transformed** from the source to the target. I defined several models that used Oracle and Microsoft SQL Server sources and targets without incident.

I installed the...

...Designer includes four powerful and highly graphical modules: Source Analyzer, Warehouse Designer, Mapping Designer, and the Transformation Developer. I used the Source Analyzer to import **schema** information from my data sources and the Warehouse Designer helped me create and edit my target tables. I especially liked the Mapping Designer because it...

14/3,K/26 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

04447955 Supplier Number: 46528785 (USE FORMAT 7 FOR FULLTEXT)

**Viewing Data Your Way**

InformationWeek, p67

July 8, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; General Trade

Word Count: 2893

... the setup. A typical relational database for IQ/Vision has seven or eight dimensions, as well as many measures.

Using the Cube Definition module, the **database** administrator **maps** the original **database** into a Star **Schema**, which entails writing a lot of SQL code. At the center of the star is the Fact table, which holds the measures. The points of the star are tables containing the dimensions. The administrator can **add** computed **columns** for aggregations and make other changes to the relational database for OLAP use.

The database administrator needs to create the date hierarchy tables for IQ...

14/3,K/27 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

04410949 Supplier Number: 46471326 (USE FORMAT 7 FOR FULLTEXT)

**InfoModeler eases data handling**

InfoWorld, p149

June 17, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1221

... logical model and helps catch mistakes right up front. Changes can be made at the logical model level; names can be edited, keys defined, and **columns** **added**, removed, or reordered using convenient drag-and-drop action. Any revisions made at this logical level can be migrated back to your source model documents...

... following the steps needed to select and connect to a target database via ODBC drivers. An Alter Wizard helps with the processes of synchronizing, previewing, and altering a **database** **schema**.

InfoModeler fits in smoothly with the Windows 95 look and feel. Tabbed dialog boxes are used extensively with right-mouse support and an Explorer-like...



14/3,K/28 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09769636 SUPPLIER NUMBER: 19825261 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Embarcadero's 32-bit DBArtisan 4.0 Automates Database Administration**  
PR Newswire, p1006SFM090  
Oct 6, 1997  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 858 LINE COUNT: 00079

... in one session from a single point." DBArtisan features hundreds of enhancements all designed to increase performance or ease of use. Some of these include:

**Database Synchronization** flexibly automates the **synchronization** and migration of **databases**. It sequences and reconstructs objects to ensure that correct dependencies are maintained between them.

**Visual Schema**, Object and Database Management provides complete control over heterogeneous databases. It offers **schema** extraction capabilities and the ability to create and alter database objects. DBArtisan 4.0 documents database objects through a visual interface, as well as creating easily referenced SQL code. It also allows the user to **add**, modify, delete and reorder table **columns** at will to facilitate flexible updates.

Space and Storage Management enhances database performance and guards against system failure or corruption. DBArtisan 4.0 utilities monitor...

14/3,K/29 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09329904 SUPPLIER NUMBER: 19138784 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Fight user directory chaos. (Zoomit's VIA object software) (Product Information)**  
Olsen, Florence  
Government Computer News, v16, n3, p33(2)  
Feb 10, 1997  
ISSN: 0738-4300 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 881 LINE COUNT: 00075

... and create the user mail accounts and other accounts according to a profile.

Zoom forward

The mete directory is a big step forward from the **directory synchronization** products that Zoomit and other companies first offered to integrate a variety of incompatible messaging application directories, Cameron said.

Zoomit's VIA, for example, is based on a specialized hashing database with flexible **schema** and a relational memory, Cameron said. "It remembers relationships between directories," he said.

The VIA management tools permit administrators to assign administrative rights to different parts of the mete directory and to maintain fine-grained access control over the mete directory's **field attributes**.

Users **add** to or delete information only once to update all information connected to the mete directory. "Once you've got the mete directory, you can create...

14/3,K/30 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

08802691 SUPPLIER NUMBER: 18462481 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Viewing data your way. (IQ Software IQ Vision 4.0; SAS Institute SAS System**

6.11) (part 1 of 2) (Software Review) (Evaluation)

Tye, Jay

InformationWeek, n587, p67(5)

July 8, 1996

DOCUMENT TYPE: Evaluation ISSN: 8750-6874

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2915 LINE COUNT: 00241

... the setup. A typical relational database for IQ/Vision has seven or eight dimensions, as well as many measures.

Using the Cube Definition module, the **database** administrator **maps** the original **database** into a Star **Schema**, which entails writing a lot of SQL code. At the center of the star is the Fact table, which holds the measures. The points of the star are tables containing the dimensions. The administrator can **add** computed **columns** for aggregations and make other changes to the relational database for OLAP use.

The database administrator needs to create the date hierarchy tables for IQ...

14/3,K/31 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

14/3,K/31 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 18405534 (USE FORMAT 7 OR 9 FOR FULL TEXT)

InfoModeler eases data handling. (Asymetrix Corp's InfoModeler 2.0 Early

Access client/server data modeling software) (Software Review) (Evaluation)

Stoughton, Alan M.

InfoWorld, v18, n25, p149(1)

June 17, 1996

DOCUMENT TYPE: Evaluation ISSN: 0199-6649

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1305 LINE COUNT: 00108

... logical model and helps catch mistakes right up front. Changes can be made at the logical model level; names can be edited, keys defined, and **columns** **added**, removed, or reordered using convenient drag-and-drop action. Any revisions made at this logical level can be migrated back to your source model documents...

...showing the steps needed to select and connect to a target database via 32-bit ODBC drivers. An Alter Wizard helps with the processes of **synchronizing**, previewing, and altering a **database** **schema**.

InfoModeler fits in smoothly with the Windows 95 look and feel. Tabbed dialog boxes are used extensively with right-mouse support and an Explorer-like...

14/3,K/32 (Item 5 from file: 148)

DIALOG(R)File 143:Gale Group Trade & Industry DB

14/3,K/32 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 17466089 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Don't wait up for new groupware messaging products. (Novell's GroupWise)

Olsen, Florence

Government Computer News, v14, n16, p6(1)

August 7, 1995

ISSN: 0738-4300 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 463 LINE COUNT: 00041

... Replication in Groupwise XTD will be "a little different from what Lotus Notes does, because ours will be a real-time transaction," he said. Notes **databases** now must be updated and **synchronized** at scheduled times.

Other features now lacking in Groupwise, such as document management, will be part of Groupwise XTD, Smart said. The Softsolutions document manager...

...check them in and out, and maintain control over different versions.

#### Flexible database

GroupWise XTD'S internal messaging database, though not truly relational, will accept **added fields** in its records without modification of the entire **schema**, Smart said.

Power users won't have to learn any new tools to develop applications for Groupwise XTD, according to Steve Adams, senior director of...

14/3,K/33 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

07526959 SUPPLIER NUMBER: 16261956 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
System Architect 3.0. (Popkin Software and Systems' CASE application) (one of three evaluations of data modelers in "Database Blueprints") (Software Review) (Evaluation)

Merhoff, Eric; Johnson, Amy H.  
InfoWorld, v16, n39, p88(5)  
Sept 26, 1994

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1809 LINE COUNT: 00146

... the reports you want if you're willing to work for them; mastering the programming language gives you great reporting flexibility. Score: Satisfactory.

#### PERFORMANCE: GENERATING SCHEMA

Although System Architect doesn't have direct connections to database engines for generating **schema**, as Erwin does, it excels at giving you **schema** output options. For example, we could select a subset of tables for which to generate a **schema**. We had control over the types of triggers, foreign key statements, primary key indexes, and case, as well as whether to use unique indexes and **insert column** prefixes. We could also choose to handle clustered indexing. Other features we found useful were the capability to log the **schema** generation activities to screen, file, or both, and the option to view the resulting script in the Notepad.

We first generated a Database Definition Library...

...file for Microsoft Corp.'s SQL Server and inspected it for completeness and accuracy. We then switched to Oracle Corp.'s Oracle7; System Architect automatically **mapped properties** from SQL Server to Oracle7. Like Erwin, System

14/3,K/34 (Item 7 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

07526957 SUPPLIER NUMBER: 16261942 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Erwin/ERX 1.5c for PowerBuilder. (Logic Works' CASE software) (one of three evaluations of data modelers in "Database Blueprints") (Software Review) (Evaluation)

Merhoff, Eric; Johnson, Amy H.  
InfoWorld, v16, n39, p88(5)  
Sept 26, 1994

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1903 LINE COUNT: 00153

... that Erwin mapped most of the syntax-independent physical details defined for Oracle7 over to SQL Server, which earned it bonus points. We created the **schema** again via a direct connection to SQL Server. We checked the result with SQL Server for Windows NT's Object Manager and found no discrepancies.

Erwin's flexibility gave us control over the entities and DDL elements to be included in the **schema** (depending on the DBMS), which enabled us to

...the basic tables with **columns** and then return to **add** indexes, defaults, and rules as we were ready to deal with them. Score: excellent.

#### PERFORMANCE: MAINTAINING DATA MODELS

We were able to make changes to both the data model and the **database** on SQL Server and **synchronize** the two without any manual editing. Erwin compared the data model against SQL Server's system catalog and displayed any differences, allowing us to selectively...

14/3,K/35 (Item 8 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

07526956 SUPPLIER NUMBER: 16261916 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Database blueprints. (overview of three database development applications)  
(individual evaluation records searchable under "Database Blueprints")  
(includes related articles on tested programs' features, installation and  
configuration data, guidelines for creating a database blueprint and  
testing criteria) (Software Review) (Evaluation)  
Merhoff, Eric; Johnson, Amy H.  
InfoWorld, v16, n39, p86(9)  
Sept 26, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5161 LINE COUNT: 00419

...to be included in the script.

To earn a score of satisfactory, the product had to generate accurate DDL scripts in text file format, create **schema** containing the basic database elements of the target DBMS, permit control of the elements and constraints to be included, and allow us to preview the...

...models: We made various modifications at both the logical and physical levels to evaluate the products' capabilities to handle both small and fundamental changes. We **added** entities and **attributes**, **added** and changed physical-level details, and then regenerated the **schema**. We also experimented with each program tool to see if and how it supported change control for single and multiple users.

To earn a satisfactory...

...it provided an easy-to-use interface for version control and access security, as well as for managing the data model and keeping it in **sync** with the **database**. We subtracted points if the tool provided no means to implement changes or allowed all changes, regardless of their consequences.

Reverse engineering DDL scripts: We...

14/3,K/36 (Item 9 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

00446641 SUPPLIER NUMBER: 16043940 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Understanding professional culture in organizational context.  
Harris, Patricia; Dawson, Patrick  
Communication Studies, v15, n2, p275(21)  
Spring, 1994  
ISSN: 0170-8406 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 9078 LINE COUNT: 00774

... understanding this interplay is the process by which new members of an organization make sense of organizational life. In explaining this process, the concept of ' **schemas** ' as a series of mental **maps** is particularly useful (Harris 1989). These cognitive maps describe how individuals entering organizations use past experiences and understandings (both consciously and unconsciously) to make predictions about events within the organization and to select appropriate responses. Essentially, a **schema** is a cognitive, structured, knowledge base which helps people

simplify, manage and interpret information and make sense of individual and group action (see also Lord and Foti 1986: 22). It is only when individuals experience events that are discrepant from their predictions that conscious meaning is **attributed** to these events and **new** behavioural responses selected (the **attributed** meanings also form the basis for re-evaluation and allow new predictions of future events to be made). According to Harris (1989), individuals have four categories of **schemas** at their disposal. These comprise: private internalized **schemas** which have accumulated from past experience; shared internalized **schemas** which have been socially validated as 'correct'; private attributional **schemas** which reflect individual understanding of the values, beliefs and likely behaviours of others; and shared attributional **schemas** which consist of a shared understanding of the values, beliefs and behaviour of others (Harris 1989). The internalized **schemas** are a source of intrinsic motivation for behaviours consistent with them and correspond to what Schein (1985) and Sathe (1985) refer to as the deepest...

14/3,K/37 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01380935 00-36922

#### Getting your "old stuff" into a new PDM system

Abbott, Randy

Computer-aided Engineering v16n3 PP: 56-58 Mar 1997

ISSN: 0733-3536 JRNL CODE: CAE

WORD COUNT: 1254

...TEXT: of the individual data repositories. The user will have to write code to extract the data and then map that data to the new data **schema** in the PDM system.

With this method, you own the software! As long as you have programming resources dedicated to the task, you can keep...

... There are some drawbacks, however. This is usually a timeconsuming task in that each individual data source will have to be looked at and then **mapped** to one or more **fields** in the **new** target system. What's more, old data repositories may not have robust interfaces for exchanging information; therefore, replication of data becomes a problem-Where is...

14/3,K/38 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

09576061 96-01431

#### Database requirements for CIM applications

Kappel, Gerti; Vieweg, Stefan

Integrated Manufacturing Systems v5n4,5 PP: 48-63 1994

ISSN: 0957-6061 JRNL CODE: ING

WORD COUNT: 11707

...TEXT: of the latter is co-operative editing of documents.

Let us now turn to changes in the description of the data in the database, to **schema** evolution and **schema** versioning. The database **schema** describes the structure and behaviour of the entities in a database, also referred to as the description of a set of object types. Changes to the **schema** description may occur at any time. Consider an engineering environment; usually, the **schema** descriptions are likely to be modified as designers arrive at a better understanding of their problem. Attribute names and attribute domains may change, the structure of composite objects may change, **new** **attributes** may be **added**, and existing **attributes** may become obsolete. An important issue is that the DBS must be able to check and resolve inconsistencies due to **schema** changes dynamically, i.e. without database shutdown.

The database services must be available during the reorganization of the database [39-41]. The reorganization of the database, i.e. of the stored data, to conform to the new schema can be achieved in three ways: conversion, implying the data being immediately changed; screening, i.e. the changes are deferred to the time when the data is accessed; and schema versioning. In the first approach the contents of the database are immediately converted after changes of the schema have occurred. This implies that for the time the conversion takes place the database is not available. This might not be desirable. The second approach...

14/3,K/39 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00602290 92-47230

**Examining the Feasibility of a Case-Based Reasoning Model for Software Effort Estimation**

Mukhopadhyay, Tridas; Vicinanza, Steven S.; Prietula, Michael J.  
MIS Quarterly v16n2 PP: 155-171 Jun 1992  
ISSN: 0276-7783 JRNL CODE: MIS  
WORD COUNT: 9551

...TEXT: Estor, solution transfer is accomplished by referencing the effort attribute of the source project and transferring it to the effort attribute of the target project schema .

From maps the source and target by bringing each attribute of the source and target one by one into working memory, comparing them, and adding corresponding attributes to a list kept in memory.

In contrast the estimate for a non-corresponding attribute, Estor uses production rules via an interpreter written specifically for...

14/3,K/40 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00318845 86-19259

**Rule-Based Data Resource Management**

Appleton, Daniel S.  
Datamation v32n9 PP: 86-99 May 1, 1986  
ISSN: 0011-6963 JRNL CODE: DAT

ABSTRACT: Since data administration is a new field , a critical introduction to it is in order. The experience of data administrators over the last 6 years in applying the fundamental data administration concepts ...

...the project model. 4. A consistent data structure must be provided among projects. 5. The installed base's data elements must be included in or mapped to the integration schema . 6. The data modeling language controls both the rules for development of conceptual schemata and how data structures are defined. 7. It is necessary that...

14/3,K/41 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01198091 CMP ACCESSION NUMBER: NWC19990809S0020

**Three for the Road**

Dan Backman  
NETWORK COMPUTING, 1999, n 1016, PG54  
PUBLICATION DATE: 990809  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext

SECTION HEADING: Analysis - Messaging  
WORD COUNT: 1413

... domain. They store desktop, application and user registry information in a common directory tree, which can be located on a file server. While most NOSes map a user's home directory to a specified server volume, Microsoft takes the home directory concept a step further by adding a profile attribute in the Windows NT 4.0 domain schema. In addition to specifying an attribute that maps a user's home directory to a specific drive letter, it redirects the user's "profile" (a directory tree containing the user's portion of the registry hive as well...

14/3,K/42 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01175322 CMP ACCESSION NUMBER: LAN19981012S0039  
Novell NetWare 5.0 - Getting the first take - Knowledge, preparation make the latest NetWare upgrade go smoothly  
Jeffrey H. Hughes and Blair W. Thomas  
JAN 1998, n 1521, PG61  
PUBLICATION DATE: 981012  
JOURNAL CODE: LAN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Hands On  
WORD COUNT: 1428

... areas addressed in the NDS 4.11 update 5.99a that will allow a 4.11 server to correctly function in a mixed environment, including schema synchronization (both classes and attributes), synchronization of new NetWare 5.0 schema additions, NDS object and property ACL (Access Control List) inheritance, and restoration of an object reference on a NetWare 5.0 server.

With older NetWare 4.0 DS.NLM versions, the schema synchronization will not work correctly in a mixed NetWare environment. For example, the NetWare 5.0 schema deletes will not synchronize accurately to NetWare 4.11 servers without replicas. The failure of schema synchronization across all servers causes a couple of problems. One problem is that NetWare 5.0 has some NLM-based applications which read the schema and can possibly obtain misleading results from a server with no user-defined replicas. For example, NLS (Novell License Services) reads the schema to verify...

...the old schema from the tree.

The second problem is that adding a replica to the server where none existed before could cause the incorrect schema information to be synchronized to other servers in the tree. This could require Novell support intervention to clean up the schema so the replica will synchronize. Running the new version of DS.NLM and the new version of DSREPAIR (version 4.56) can fix these problems. Use the Reset Local Schema...

14/3,K/43 (Item 3 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01159268 CMP ACCESSION NUMBER: NWC19980415S0019  
PLATINUM, BMC & Tivoli Bring Enterprise Database Management Down To Earth  
Barry Nance  
NETWORK COMPUTING, 1998, n 907, PG96  
PUBLICATION DATE: 980415  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext

SECTION HEADING: Reviews  
WORD COUNT: 3639

... DB-Alter gave us the ability to modify more database attributes than we could handle by using the SQL syntax native to the RDBMS. We inserted a column in the middle of a table by simply clicking on a button and specifying the new column's attributes. DB-Alter analyzed the effect of adding the midrow column and generated an optimized change script.

BMC's PATROL supports the same databases as PLATINUM Enterprise DBA. Across our Adaptive Server, Oracle and SQL Server...

...launching pad for the other PATROL tools. BMC says DB-Voyager also supports DB2 Common Server, DB2 for MVS and Informix. DB-Voyager extracted database schemas onto our local workstation and let us work with the copies, an approach BMC says reduces network traffic. We didn't know, because experience has shown that even highly complex schemas, in contrast to database content, don't require much bandwidth.

With DB-Change Manager, we migrated several schema changes to our multiple databases, compared database versions and performed database object version management. We also used it to synchronize two versions of a database object and an entire database. DB-Change Manager hid differences between databases when we asked it to work with multiple database instances, and it provided...

14/3,K/44 (Item 4 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01096808 CMP ACCESSION NUMBER: NWC19980115S0020

Syn or Swim? Will Your Merged Mail System Float Together or Drift Into Chaos?

Nancy Cox, with Dan Backman and Joel Snyder

NETWORK COMPUTING, 1998, n 901, PG68

PUBLICATION DATE: 980115

JOURNAL CODE: NWC LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Features

WORD COUNT: 5923

... C2-level security, password policies, aging and expiry, and intruder detection and lockout. LDE also takes advantage of NT and Exchange security.

LDE's directory schema is easily extensible. You can add attributes any time using a remap process; you must stop, then restart, the SQL database to make the required changes. Allow more time for propagation after...

...of a single attribute may affect thousands of users. LDE lets you set the number of days you want to keep deletes as a safeguard.

**Mapping the Attributes** You can use LDE's flexible mapping rule functions to handle common directory situations and apply them consistently across all platforms. The system easily parsed the telephone numbers and department locations out of our cc:Mail directory and...

14/3,K/45 (Item 5 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01096808 CMP ACCESSION NUMBER: IWK19960708S0049

Product Review - Viewing Data Your Way - Online analytical processing tools help users efficiently analyze business data and make more timely, informed decisions

Jay Tyo

INFORMATIONWEEK, 1996, n 587, PG67

PUBLICATION DATE: 960708



JOURNAL CODE: IWK      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: InformationWeek Labs  
WORD COUNT: 2555

... the setup. A typical relational database for IQ/Vision has seven or eight dimensions, as well as many measures.

Using the Cube Definition module, the **database** administrator **maps** the original **database** into a Star **Schema**, which entails writing a lot of SQL code. At the center of the star is the Fact table, which holds the measures. The points of the star are tables containing the dimensions. The administrator can **add** computed **columns** for aggregations and make other changes to the relational database for OLAP use.

The database administrator needs to create the date hierarchy tables for IQ...

14/3,K/46      (Item 6 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01077419      CMP ACCESSION NUMBER: WIN19960101S0090  
**voysAccess for Visual Basic - Dialing for Data** (Winlab First Impressions)  
James F. Powell  
WINLAB MAGAZINE, 1996, n 701, PG162  
PUBLICATION DATE: 960101  
JOURNAL CODE: WIN      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Winlab First Impressions  
WORD COUNT: 571

... its length. You have to write the logic that organizes these messages and plays them back. Because the system supports variables, it's easy to **create** a "count" **field** to tally the number of incoming calls. The system can dial or transfer a call, too, and you can specify the number of rings before...

...a caller's Touch-tone input, your application can retrieve information from a database. The application can also respond vocally, even formatting values such as **adding** the words "dollars" and "cents" to currency **fields** and **translating** numerical dates into their narrative equivalents.

To retrieve information you use the designer's Data Query Wizard to **map** a **schema** of the data, including relationships between tables and databases. The Query Wizard builds SQL statements using Select, From, Where and Order By parameters, which can...

14/3,K/47      (Item 7 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01077419      CMP ACCESSION NUMBER: OST19920427S1935  
**Natural Language Frees The Tongue - But Quirks Of The English Language Put The Brakes On Versatility**  
Andy Feibus  
OPEN SYSTEMS TODAY, 1992, n 096, 61  
PUBLICATION DATE: 920427  
JOURNAL CODE: OST      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Technology  
WORD COUNT: 2473

... creates the application program.

When you start icon, five different windows are displayed on your screen: the main control panel window, a "relation" window, an " **attribute** " window, a " **mapping** " window and an "information" window. The latter four windows each provide a different form for entering information about

the database.

Relation forms describe each table...

...clues as to what entity the table represents. The initial set of relation forms can be created by extracting the names of the tables and **fields** from your database using the " **Create a schema** " selection when you start the icon program. You are then free to add or change information in these forms to suit your application.

Attribute forms...

...used to reference the data in the field (e.g., if the database field **cntrysize** refers to a country's size, you could define an **attribute** to **map** references to the words "size" or "are" to this field), the output format for date and time fields, or the structure of a field that...

4/9/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01717961 03-68951

**NDS gets Microsoft's ear**

Burns, Christine

Network World v15n42 PP: 1, 16 Oct 19, 1998 ISSN: 0887-7661

JRNL CODE: NWW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 2 Pages

SPECIAL FEATURE: Charts

WORD COUNT: 815

**SUMMARY:** Microsoft engineers are working on a one-way directory synchronization product that will let Microsoft's Active Directory Service work with Novell Directory Services (NDS) to manage users across NT and NetWare servers. Microsoft's NT 5.0-to-NDS synchronization product will tap into Active Directory databases at intervals defined by the administrator in order to determine what changes, additions and deletions have been made to the directory. The product will then propagate those changes down to servers hosting NDS.

**TEXT:** In an unusual twist, Microsoft is plotting to beat Novell's popular directory technology --by joining it.

To do so, Microsoft engineers are working on a oneway directory synchronization product that will let Microsoft's Active Directory Service work with Novell Directory Services (NDS) to manage users across NT and NetWare servers.

But Microsoft, which won't ship this yet-to-be-announced directory synchronization product until after NT 5.0 ships sometime in the middle of next year, is coming very late into the directory game.

In fact, the revelation is viewed by Novell as a classic case of FUD (fear, uncertainty and doubt). Microsoft will do anything it can to try to delay customers from adopting NDS for NT, claims Michael Simpson, director of marketing at Novell.

"But no matter how much spin they put on it, the fact remains that we have something on the market that works today, and they've got nothing," he says.

Industry observers seem to agree with Novell that Microsoft is trying to dampen interest in NDS for NT by talking about its own directory synchronization product almost a full year before it plans to ship Active Directory.

"Microsoft has resigned itself to coexistence with NetWare for the foreseeable future. They are clearly looking for a way to make Active Directory the master and NDS the slave in mixed environments," says Jon Oltsik, an analyst with Forrester Research Group in Cambridge, Mass.

**Avalanche of products**

There's been a flurry of NT and NDS directory synchronization products in the past 18 months, especially because Microsoft has pushed NT 4.0 into most corporate shops where Novell's NetWare has traditionally ruled the roost.

Without these synchronization tools network managers are forced to maintain duplicate network operating system infrastructures and end users are often required to log on to the NT and NetWare systems separately.

(Table Omitted)

Captioned as: IN SYNC WITH DIRECTORIES

Microsoft's NT 5.0-to-NDS synchronization product referred to internally as the **Active Directory Connector** for NDS - will ship as a standalone

product sometime after NT 5.0 hits the streets next year, says Peter Houston, NT product manager.

The product will tap into Active Directory databases at intervals defined by the administrator in order to determine what changes, additions and deletions have been made to the directory. The product will then propagate the changes down to servers hosting NDS.

Houston says Microsoft has no plans to propagate changes made to the NDS database back up to Active Directory. "I fully expect that third-party [independent software vendors] will provide that add-on feature," Houston says.

The application will have the ability to map attributes across the two directory services. For example, if Active Directory stores a user's first and last name as two attributes but NDS stores it as only one, then the application knows to consolidate the two Active Directory attributes before sending it over the wire.

Microsoft also will ship a graphical user interface administration tool, which will let an administrator define exactly which user and network device attributes need to be synchronized between systems. This granularity is necessary for performance reasons, Houston says.

"Sending information about every single attribute across the wire could be costly in terms of network bandwidth," he says.

User reaction to Microsoft taking up the directory synchronization gauntlet was split based on operating system use. First Union Capital Markets, in Charlotte, N.C., has a mix of 170 NT 4.0 and 30 NetWare 4.X machines but is planning future migration to an all NT 5.0 environment. NT systems engineer Cliff Schommer says he would consider using the Microsoft synchronization tool to provide a temporary link between the new NT 5.0 servers and the NetWare servers being phased out.

However, Schommer also would like to see Microsoft provide standard links to multiple directories through the use of the Lightweight Directory Access Protocol.

But Novell customers who are heavily invested in NDS which has been on the market for more than five years nowsay they are not willing to let NDS play second fiddle to Active Directory.

vA work-around from Microsoft that only addresses NDS in a limited way and doesn't function as an integral part of NDS just won't work," says Walt Anderson, a technical analyst with Pope and Talbot, a fiber and wood manufacturing company in Portland, Ore.

"I would not trust Microsoft to do it right because it's not in their best interest to make Novell look good. Novell, on the other hand, has to make this work or it's curtains for them. Novell's future depends on NDS, and I think they know it," he says.

Tom Ferris, a network analyst with a financial institution that uses NT 4.0 and NetWare, says Microsoft's attempt to provide halfbaked links to NDS is not a draw for him either.

He says the directory consolidation approach Novell has taken with NDS for NT is better suited for the directory-enabled applications he has already deployed.

File 347:JAPIO Nov 1976-2003/Nov(Updated 040308)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200419

(c) 2004 Thomson Derwent

Set	Items	Description
S1	1547183	ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR FIELD? ? OR COLUMN? ?
S2	143326	DIRECTORY OR DIRECTORIES OR SCHEMA? ? OR DATABASE? ? OR DATA()BASE? ? OR REPOSITOR???
S3	9233	S1:S2(5N)(MAP???? OR SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? OR CONFORM?)
S4	30527	S1(5N)(NEW?? OR CURRENT)
S5	297	S1(5N)(OLD??? OR PRE()EXIST??? OR PREEXIST???)
S6	18341	S1(7N)(CONVERT? OR CONVERSION? OR REFORMAT? OR RE()FORMAT? OR TRANSLAT? OR TRANSFORM?)
S7	37135	S1(7N)(INSERT??? OR ADD??? OR CREAT???)
S8	666	S3 AND S4:S7
S9	181	S8 AND IC=G06F
S10	7	S9 AND SCHEMA? ?
S11	11	S3 AND S4:S5 AND S6:S7 AND S9
S12	187	S10:S11
S13	93	S3 AND SCHEMA? ? AND IC=G06F
S14	19	S13 AND ATTRIBUTE? ?
S15	17	S14 NOT S12
S16	1603	(RULE? ? OR POLICY OR POLICIES OR FLAG? ?)(7N)(MAP???? OR - SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? - OR CONFORM?)
S17	54	S3 AND S16 AND IC=G06F
S18	51	S17 NOT (S12 OR S15)
S19	26	DIFFERENT(5N)SCHEMA? ?
S20	23	S19 AND IC=G06F
S21	20	S20 NOT (S12 OR S15 OR S18)
S22	13	S16 AND S4:S7 AND IC=G06F
S23	4	S22 NOT (S12 OR S15 OR S18 OR S21)

12/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07335950 \*\*Image available\*\*

MAP DATA UPDATING SYSTEM AND MAP DATA EDITING SYSTEM

PUB. NO.: 2003-330361 [JP 2003330361 A]  
PUBLISHED: November 19, 2003 (20031119)  
INVENTOR(s): KANEKO KAZUMA  
UMETSU MASAHARU  
MIKURIYA MAKOTO  
SHITAYA MITSUO  
APPLICANT(s): MITSUBISHI ELECTRIC CORP  
APPL. NO.: 2002-136037 [JP 2002136037]  
FILED: May 10, 2002 (20020510)  
INTL CLASS: G09B-029/00; G01C-021/00; G06F-017/30 ; G08G-001/0969

ABSTRACT

PROBLEM TO BE SOLVED: To eliminate the necessity of re-imparting extended attribute of a road imparted before updating even when map data is updated in the revised version or the like.

SOLUTION: The map data updating system is provided with an extended road data identifying section 51 for identifying, based on road **attribute** of old map data 1 and new map data 3, the road prescribed by old road discrimination data 21 and the road prescribed by new road discrimination data 41 to be matched, and an extended road data **conversion** section 52 for **converting** old extended road **attribute** data 22 as the extended attribute data of the road prescribed by the new road discrimination data 41 identified by the extended road data identification section 51.

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12/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07231106 \*\*Image available\*\*

APPARATUS AND METHOD FOR DOCUMENT MANAGEMENT, AND STORAGE MEDIUM

PUB. NO.: 2002-099554 [JP 2002099554 A]  
PUBLISHED: April 05, 2002 (20020405)  
INVENTOR(s): SHIMIZU TAKAYUKI  
APPLICANT(s): CANON INC  
APPL. NO.: 2000-287028 [JP 2000287028]  
FILED: September 21, 2000 (20000921)  
INTL CLASS: G06F-017/30 ; G06F-012/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide an apparatus and method for document management capable of easily implementing document retrieval based on a document attribute and displaying a set retrieval document attribute to be seeable more easily, and also easily performing the document retrieval by sorting even when there is a great deal of sorting.

SOLUTION: On an identical display area 109a, there are displayed cabinet.items CABINET 1, 2 for sorting document information, folder.items FOLDER 1 to 4 being sub-sorts, retrieval attribute items Name: ABCDEF and the sub (low order) retrieval attribute items. When the sub retrieval **attribute** items Index: XYZ of retrieval **attribute** items **Created** : 1/12/97-10/2/97 is specified by a user, the display is inverted, and high order retrieval attributes including the sub retrieval attribute items Index: XYZ are ANDed (logical product) to be **new** retrieval **attributes** . Document information **conforming** to this retrieval **attributes** is retrieved to display at the display area 109b.

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12/5/3 (Item 3 from file: 347)  
DIALOG(R) File 347:JAPIO  
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06384294 \*\*Image available\*\*  
INFORMATION MANAGEMENT SYSTEM, NAVIGATION SYSTEM AND METHOD

PUB. NO.: 11-325940 [JP 11325940 A]  
PUBLISHED: November 26, 1999 (19991126)  
INVENTOR(s): MIKURIYA MAKOTO  
SHITAYA MITSUO  
UMETSU MASA HARU  
APPLICANT(s): MITSUBISHI ELECTRIC CORP  
APPL. NO.: 10-135739 [JP 98135739]  
FILED: May 18, 1998 (19980518)  
INTL CLASS: G01C-021/00; **G06F-017/30** ; G08G-001/0969; G09B-029/10

#### ABSTRACT

PROBLEM TO BE SOLVED: To ensure compatibility of **map data base** while reducing the volume thereof by selecting an information group satisfying the execution requirements of navigation processing among information groups stored in a memory means.

SOLUTION: The information management system applicable to navigation system, or the like, employs a CD-ROM storing a **map data base** storing **attribute** pieces, i.e., an information group of identical attribute, for example. A data of each node object having four attributes is stored as four pieces of attribute PA00-PA03 in the CD-ROM. Since all information is not required for executing navigation processing, only required pieces of attribute are selected with reference to an attribute piece identifier and stored in an RAM for use. Since **new attribute** pieces can be **added** to the data base and the data can be compressed easily, volume of the data base can be reduced.

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12/5/4 (Item 4 from file: 347)  
DIALOG(R) File 347:JAPIO  
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06131893 \*\*Image available\*\*  
DEFINITION GENERATION SUPPORTING DEVICE BASED ON FEATURE OF DATA, METHOD THEREFOR AND STORAGE MEDIUM STORED WITH PROGRAM THEREFOR

PUB. NO.: 11-073431 [JP 11073431 A]  
PUBLISHED: March 16, 1999 (19990316)  
INVENTOR(s): IIZUKA YUICHI  
ISOBE SEIJI  
KUROKAWA KIYOSHI  
SHIOBARA TOSHIKO  
IIZUKA TETSUYA  
APPLICANT(s): NIPPON TELEGR & TELEPH CORP &lt;NTT>  
APPL. NO.: 10-027475 [JP 9827475]  
FILED: February 09, 1998 (19980209)  
PRIORITY: 26900 [JP 9726900], JP (Japan), February 10, 1997 (19970210)  
27990 [JP 9727990], JP (Japan), February 12, 1997 (19970212)  
09161370 [JP 979161370], JP (Japan), June 18, 1997 (19970618)  
INTL CLASS: **G06F-017/30**

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide the device and method for supporting definition generation based on data features such as a decision tree and classification features for automatically generating information conversion program so as to quickly execute data analysis and to provide a storage

medium in which the program therefor is stored.

SOLUTION: A restricting condition generation part 105 extracts the features of data from **schema** and contents information stored in a data base or file 100 and a definition combination generation part 106 automatically generates information **conversion** definition 101 from **attribute mapping** definition for regulating the combination of attributes of data and the parameters of graphic information and information conversion method definition for regulating a method for **converting** the values of respective data **attributes** into the values of corresponding graphic information parameters based on the extracted data features.

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12/5/5 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015828553 \*\*Image available\*\*  
WPI Acc No: 2003-890756/200382  
NRW Acc No: N03-711859

Map data update system for vehicle navigation system, converts attribute data of old extension read as attribute data for new road identified based on old and new map data

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003330361	A	20031119	JP 2002136037	A	20020510	200382 B

Priority Applications (No Type Date): JP 2002136037 A 20020510

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
JP 2003330361	A		19	G09B-029/00	

Abstract (Basic): JP 2003330361 A

NOVELTY - An extension road identification unit (51) identifies a road specified by new road identification data (41) stored in memory (4) which coincides with a road specified by old road identification data (21) stored in memory (2), based on **attributes** of old and new map data. A **conversion** unit (52) **converts** old extension road **attribute** data stored in the memory (2) as an extension attribute data of the identified road.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for map data edit system.

USE - For navigation system of vehicle.

ADVANTAGE - The user can **convert** the extension road **attribute** data of old map data into **attribute** data for new map data easily and efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of map data update system. (Drawing includes non-English language text).  
memories (1-4)

map data update unit (5)

old road extension **attribute** data (22)

old road identification data (23)

new road identification data (41)

new extension road **attribute** data (42)

extension road data identification unit (51)

extension road data converter (52)

pp; 19 DwgNo 1/19

Title Terms: MAP; DATA; UPDATE; SYSTEM; VEHICLE; NAVIGATION; SYSTEM;  
CONVERT; ATTRIBUTE; DATA; EXTEND; READ; ATTRIBUTE; DATA; NEW; ROAD;  
IDENTIFY; BASED; NEW; MAP; DATA

Derwent Class: P85; S02; T01; X22

International Patent Class (Main): G09B-029/00

International Patent Class (Additional): G01C-021/00; G06F-017/30 ;  
G08G-001/0969



File Segment: EPI; EngPI

12/5/6 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015716162 \*\*Image available\*\*  
WPI Acc No: 2003-778362/200373  
Related WPI Acc No: 2003-778410  
XRPX Acc No: N03-623820

**Data modifying method, involves providing abstract model defining  
abstract modification describing data model modification operation which  
is transformed into physical modification by runtime component transforms**

Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: DETTINGER R D; LAROCCA J L; STEVENS R J

Countries: 001 Number of Patents: 001

Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030167274	A1	20030904	US 200283075	A	20020226	200373 B
			US 2003403366	A	20030331	

Priority Applications (No Type Date): US 2003403366 A 20030331; US  
200283075 A 20020226

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030167274 A1 27 G06F-007/00 CIP of application US 200283075

Abstract (Basic): US 20030167274 A1

**NOVELTY** - The method involves providing an abstract model that  
defines an abstract modification specification that describes an  
operation to modify the data. The model comprises logical **fields** and  
a rule that **maps** the logical **fields** to physical data **fields**. A  
run-time component **transforms** the abstract specification into a  
physical modification specification that is consistent with the  
physical data.

**DETAILED DESCRIPTION** - An **INDEPENDENT CLAIM** is also included for a  
computer readable medium for modifying data.

**USE** - Used for modifying data through a logical framework in data  
repositories.

**ADVANTAGE** - The abstract representation of a data repository  
enables easy changing of the underlying physical representation without  
affecting the application and further multiple abstract data  
representations can be defined to support different applications  
against the same database **schema** that may have different default  
values.

**DESCRIPTION OF DRAWING(S)** - The drawing shows a block diagram of  
computer architecture employed in a data modifying method.

Network system (100)

Computer (102)

Server (104)

CPU (110)

Bus (112)

Network (126)

pp; 27 DwgNo 1/13

Title Terms: DATA; MODIFIED; METHOD; ABSTRACT; MODEL; DEFINE; ABSTRACT;  
MODIFIED; DESCRIBE; DATA; MODEL; MODIFIED; OPERATE; TRANSFORM; PHYSICAL;  
MODIFIED; COMPONENT; TRANSFORM

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

12/5/7 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015597051 \*\*Image available\*\*  
WPI Acc No: 2003-659206/200362

XRPX Acc.No: N03-525502

**Computerized data exchange method of software applications, involves generating sub- schema validating data to be exchanged by matching mapped data fields of applications with super- schema**

Patent Assignee: NCR CORP (NATC )

Inventor: KUMAR A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
20030110311	A1	20030612	US 20013319	A	20011206	200362 B

Priority Applications (No Type Date): US 20013319 A 20011206

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030110311 A1 8 G06F-009/46

Abstract (Basic): US 20030110311 A1

NOVELTY - The data fields published by the consumer and producer software applications (100,102) are **mapped** and are stored in a **database** (110). When a data field with different format is required by a consumer, a flag is **inserted** to the published data **fields**. The flagged data fields are matched with a super- **schema** (106) to create sub- **schema** (108) for validating the files (104) to be exchanged.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for exchanging data files between software applications.

USE - For exchanging data between producer and consumer software applications by utilizing dynamic architecture technique (DAT), using computer system (claimed).

ADVANTAGE - The prior knowledge of exact definition of data to be exchanged is unnecessary to the consumers and producers and the published data is utilized by any software application.

DESCRIPTION OF DRAWING(S) - The figure shows the functional block diagram of the data file exchange method.

consumer and producer software applications (100,102)  
file (104)  
super and sub- **schema** (106,108)  
database (110)  
pp: 8 DwgNo 1/3

Title Terms: COMPUTER; DATA; EXCHANGE; METHOD; SOFTWARE; APPLY; GENERATE;  
SUB; VALID; DATA; EXCHANGE; MATCH; MAP; DATA; FIELD; APPLY; SUPER

Derwent Class: T01

International Patent Class (Main): G06F-009/46

File Segment: EPI

12/5/8 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014634368 \*\*Image available\*\*

WFI Acc No: 2002-455072/200248

Related WPI Acc No: 2002-425961; 2002-425968; 2002-618056; 2002-722787

XRPX Acc No: N02-358861

**Method and apparatus for transforming data in computer software, comprises program for transforming source data structure to a destination data structure, uses source tables, source fields and table relationships, and source values**

Patent Assignee: A2I INC (ATWO-N); HAZI A (HAZI-I); LIU Z (LIUZ-I); LO W (LOWW-I); WEINBERG P N (WEIN-I)

Inventor: HAZI A; LIU Z; LO W; WEINBERG P N

Number of Countries: 097 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
20020194196	A2	20020620	WO 2001US48573	A	20011212	200248 B
20020194196	A	20020624	AU 200241635	A	20011212	200267
20020194196	A1	20021219	US 2000255560	A	20001212	200303
			US 200122056	A	20011212	

Priority Applications (No Type Date): US 2001960902 A 20010920; US  
2000255560 P 20001212; US 2001960541 A 20010920; US 200122056 A 20011212

**Patent Details:**

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200247463 A2 E 88 G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 200241635 A G06F-000/00 Based on patent WO 200247463

US 20020194196 A1 G06F-007/00 Provisional application US 2000255560

**Abstract (Basic): WO 200247463 A2**

NOVELTY - The method and apparatus for transforming data allow for loading the data from one or more source tables into one or more destination tables. The system allows for parsing source data **fields**, defining **new** source data **fields**, combining source **fields** to **create** source **field** combinations, and combining destination **fields** to **create** destination **field** combinations.

DETAILED DESCRIPTION - The system allows for **mapping** source **fields** and values to destination fields and values, where either the source fields and values or destination fields and values may be **field** and value combinations, and allows for **transforming field** values based on destination **field** type. The tools provided in a system implementing the invention provide a user the ability to intervene at each step during the data transform task. A user may manually input a hierarchy definition, a specific **mapping**, define rules for combining data **fields**, or define rules for **converting** data values. An INDEPENDENT CLAIM is made for transforming data.

USE - Method and apparatus for transforming data in computer software.

ADVANTAGE - Provides systems with **transform** tools for **mapping fields**, and for **converting** and **mapping** data values, including **field-at-a-time** handling of source data, comprehensive mapping that is performed at both the field level and the **field** level value, the ability to parse and **convert**, partition, merge, and **transform** source and destination **field** values, and record matching simultaneously against multiple fields and/or field combinations.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart illustrating the steps involved in transforming data in an embodiment of the invention.

pp: 88 DwgNo 1/5

Inter Terms: METHOD; APPARATUS; TRANSFORM; DATA; COMPUTER; SOFTWARE;  
PROCESS; PROGRAM; TRANSFORM; SOURCE; DATA; STRUCTURE; DESTINATION; DATA;  
STRUCTURE; SOURCE; TABLE; SOURCE; FIELD; TABLE; RELATED; SOURCE; VALUE

Derwent Class: T01

International Patent Class (Main): G06F-000/00 ; G06F-007/00

File Segment: EPI

12/5/9 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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01400194 \*\*Image available\*\*

REF. Acc No: 2001-484408/200153

REF. Acc No: N01-358576

Electronic bill generator for presenting bills over Internet uses open schema database generator to create billing database with the necessary fields

Patent Assignee: E-BUSINESS EXCHANGE PTE LTD (EBUS-N)

Inventor: CHONG MEI L; CHOO KONG J; LOH KAH H; LOW CHOOI M; NEO LENG C; NG CHOON C; YOO WENG T; CHAI N C; CHOO N L; HOOI L K; JAM C K; LIANG C M; MING L C; TIM Y W; CHONG M L; CHOO K J; LOH K H; LOW C M; NEO L C; NG C C ; YOON W T

Number of Countries: 095 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1122676	A1	20010808	EP 2001300900	A	20010201	200153 B
WO 200157745	A2	20010809	WO 2001IB721	A	20010201	200153
WO 200157753	A1	20010809	WO 2001SG3	A	20010201	200153
JP 2001256423	A	20010921	JP 200126177	A	20010201	200170
AU 200127226	A	20010814	AU 200127226	A	20010201	200173
AU 200150574	A	20010814	AU 200150574	A	20010201	200173

Priority Applications (No Type Date): US 2000539720 A 20000330; US 2000179535 P 20000201

Parent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
EP 1122676	A1	E	30	G06F-017/60	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
WO 200157745	A2	E		G06F-017/60	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
WO 200157753	A1	E		G06F-017/60	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
JP 2001256423	A		25	G06F-019/00	
AU 200127226	A			G06F-017/60	Based on patent WO 200157753
AU 200150574	A			G06F-017/60	Based on patent WO 200157745

Abstract (Basic): EP 1122676 A1

NOVELTY - Bill template processor (112) creates a template. Tags may be inserted in template. Template creates bill **schema** in database server (103). Bill data processing module (104) allows user to change data sent to **schema** by entering conditions. Data pump (110) sends data to **schema** as directed by data **mapper** (106) and Extended Markup Language (XML) mapper (108) thus building complete bill.

DETAILED DESCRIPTION - Bill template may be built using Standard Query Language (SQL). Tags may be Extended Markup Language (XML) tags. Hypertext Markup Language (HTML) bill can be sent to customer via Internet. An INDEPENDENT CLAIM is included for the method of bill creation used in this system.

USE - For electronically creating bills for presentation over the Internet e.g. in the course of e-commerce.

ADVANTAGE - Using the open ended **schema** generator allows bills to be produced for different industries e.g. telecommunications, insurance, using one system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the system.

Database server (103)  
 Bill data processing module (104)  
 Data mapper (106)  
 XML mapper (108)  
 Data pump (110)  
 Bill template processor (112)

pp; 30 DwgNo 1/18

Title Terms: ELECTRONIC; BILL; GENERATOR; PRESENT; BILL; OPEN; DATABASE; GENERATOR; BILL; DATABASE; NECESSARY; FIELD

Derwent Class: T01

International Patent Class (Main): G06F-017/60 ; G06F-019/00

International Patent Class (Additional): G06F-012/00

IPC Segment: EPI

DIALOG(R)File 350:Derwent WPIX  
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013399110 \*\*Image available\*\*

WPI Acc No: 2001-373601/200139

XRPX Acc No: N01-273269

**Generating method for decision-tree classifier in shared-memory multiprocessor system, involves splitting attributes lists into new attributes lists which correspond to sub-nodes of current node**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: AGRAWAL R; HO C; ZAKI M J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6230151	B1	20010508	US 9861808	A	19980416	200139 B

Priority Applications (No Type Date): US 9861808 A 19980416

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6230151	B1	29	G06F-015/18	

Abstract (Basic): US 6230151 B1

NOVELTY - Each processor splits attributes lists, reassigned to the processor, into **new attributes** lists which correspond to sub-nodes of a current node and reside in a shared memory. The splitting process and the processes preceding it are repeated with each newly created sub-node as the **current** node until each **attribute** list for **newly created** sub-nodes includes only tuples of same record class.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a computer program product;

(b) a database system.

USE - For generating decision-tree classifier from data records in shared-memory multiprocessor system.

ADVANTAGE - Provides decision-tree classifier which is fast, compact and scalable on large disk-resident training sets, without restricting the size of training set to the system memory limit or introducing heavy communication among processors. Attains load balancing in the system.

DESCRIPTION OF DRAWING(S) - The figure shows the **mapping** of **attribute** lists for each node of physical files.

pp; 29 DwgNo 9/23

Title Terms: GENERATE; METHOD; DECIDE; TREE; CLASSIFY; SHARE; MEMORY; MULTIPROCESSOR; SYSTEM; SPLIT; ATTRIBUTE; LIST; NEW; ATTRIBUTE; LIST; CORRESPOND; SUB; NODE; CURRENT; NODE

Derwent Class: T01

International Patent Class (Main): G06F-015/18

File Segment: EPI

12/5/11 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013399110 \*\*Image available\*\*

WPI Acc No: 2000-571048/200053

XRPX Acc No: N00-422380

**Computer implemented method for persisting object in relational database in distributed computer system, involves storing values of fields obtained by unencapsulating of object in columns to which fields are mapped**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: BURROUGHS T K; GANSEMER S J; LEE W D; MORRISON V P; ROGERS C A;

ZABOROWSKI L J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6076090	A	20000613	US 97979250	A	19971126	200053 B

Priority Applications (No Type Date): US 97979250 A 19971126

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6076090	A		24	G06F-017/30	

Abstract (Basic): US 6076090 A

NOVELTY - The field name, field type and class name of each field of the objects are determined. The row corresponding to the object and **columns** corresponding to **fields** are **created** in the relational **database**. The **schema** map object defining **mapping** between the **fields** of object and **columns** is **created**. The values of **fields** obtained by unencapsulating of object are stored in the **columns** to which **fields** are **mapped**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) computer implemented system;

(b) object persisting program stored in recording medium

USE - For persisting object in relational database at application program run time of standalone, distributed or other computer system.

ADVANTAGE - Automates **schema mapping** to speed the process and hence enhances ease of use. The fields are preferably determined using the Java Reflections techniques since the class objects rather than the object itself can be readily examined using reflections. Unencapsulation of the object is performed to reveal the values of its fields using simple techniques.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining initialization of object persisting processes.

pp; 24 DwgNo 6/10

Title Terms: COMPUTER; IMPLEMENT; METHOD; OBJECT; RELATED; DATABASE;

DISTRIBUTE; COMPUTER; SYSTEM; STORAGE; VALUE; FIELD; OBTAIN; OBJECT;

COLUMN; FIELD; MAP

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

12/5/12 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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19990872 \*\*Image available\*\*

WI 700 No: 1999-458977/199938

KRPX Acc No: N99-343325

**Synchronization method for synchronizing schema of database with its representation in object-oriented repository**

Patent Assignee: UNISYS CORP (BURS )

Inventor: SRINIVASAN U R; TARDIVEAU M

Number of Countries: 020 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9939284	A1	19990805	WO 99US1817	A	19990128	199938 B
US 6026408	A	20000215	US 9814302	A	19980128	200016
EP 1049994	A1	20001108	EP 99904377	A	19990128	200062
			WO 99US1817	A	19990128	
JP 2002502075	W	20020122	WO 99US1817	A	19990128	200211
			JP 2000529672	A	19990128	
EP 1049994	B1	20030402	EP 99904377	A	19990128	200325
			WO 99US1817	A	19990128	
DE 69906488	E	20030508	DE 606488	A	19990128	200338
			EP 99904377	A	19990128	
			WO 99US1817	A	19990128	

Priority Applications (No Type Date): US 9814302 A 19980128

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002502075	A1	E	42	G06F-017/30	

Related States (National): JP

.Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

US 6026408 A G06F-017/30  
EP 1049994 A1 E G06F-017/30 Based on patent WO 9939284  
Designated States (Regional): DE FR GB  
EP 2002502075 W 47 G06F-017/30 Based on patent WO 9939284  
EP 1049994 B1 E G06F-017/30 Based on patent WO 9939284  
Designated States (Regional): DE FR GB  
EP 6026408 E G06F-017/30 Based on patent EP 1049994  
Based on patent WO 9939284

Abstract (Basic): WO 9939284 A1

NOVELTY - An object oriented mechanism is stored in memory for  
executing a method for **synchronizing schemas** between a **database**  
and an object-oriented repository.

DETAILED DESCRIPTION - Catalogue information is read for an object  
on which the method is invoked, and properties of the object are  
retrieved from the database and compared with the properties of another  
object in the repository to determine whether there are any  
differences. Based upon the determination that differences exist, the  
method creates a new version of the object in the repository with **new**  
**properties**, and determines whether is a composite object, and if so  
it determines whether there are more contained objects. If so the steps  
of the method are repeated.

USE - Administering one or more **databases** using an object  
oriented **repository**. **Synchronizing** and maintaining a history of  
**database schemas** in repository, thereby providing a common place for  
all **schema** to be stored.

ADVANTAGE - Maintains history of database **schemas** in a repository  
as **schemas** change in the database. Facilitates better **schema**  
information management. Enables storage and management of database  
**schemas** in an object-oriented repository environment.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram  
showing the interaction between an individual CPU, a database and a  
repository.

CPU (13)  
Database (17)  
Repository (20)  
I/O Ports (22)  
pp; 42 DwgNo 2/7

Title Terms: SYNCHRONISATION; METHOD; SYNCHRONISATION; DATABASE; REPRESENT;  
OBJECT; ORIENT; REPOSITORY

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-012/00

File Segment: EPI

12/5/13 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012422655 \*\*Image available\*\*  
WPI Acc No: 1999-228763/199919  
XRPX Acc No: N99-169256

**Computerized time variable property defining method of digital  
composition for programmable processing system**

Patent Assignee: ADOBE SYSTEMS INC (ADOB-N)

Inventor: SNIBBE S S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5886710	A	19990323	US 96693945	A	19960807	199919 B

Priority Applications (No Type Date): US 96693945 A 19960807

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5886710	A	6	G06F-012/00	

Abstract (Basic): US 5886710 A

NOVELTY - The specific property of digital composition is displayed at scale rate defined by scaling function, when user input is sampled. The **synchronization** of two different time variable **properties** is enabled.

DETAILED DESCRIPTION - The user input generated by mouse, joystick are sampled at sequence of sample times to obtain sequence of property value (Pi). The scaling of sequence of sample times is carried out by scaling function to obtain sequence of layer times. The keyframe sequences are generated at the sequence of layer times. The property values are recorded in the keyframe sequences. The curve that interpolates values for the property corresponding to intermediate layer times for which property value is not defined, is generated based on property value. An INDEPENDENT CLAIM is also included for memory device for storing instructions to aid computer to define time-variable property.

USE - For defining time variable properties like size, color, shape, audio properties like volume, location and rotation. For programmable processing system.

ADVANTAGE - Enables user to define time variable property value without need for understanding complexities of keyframes and curve fitting. Facilitates user to modify **property** values without need for **creating new** keyframes or redefining existing keyframes.

DESCRIPTION OF DRAWING(S) - The figure shows flow chart of time variable property defining method.

pp; 6 DwgNo 1/2

Field Terms: TIME; VARIABLE; PROPERTIES; DEFINE; METHOD; DIGITAL;

COMPOSITION; PROGRAM; PROCESS; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-012/00

File Segment: EPI

12/5/14 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012050236 \*\*Image available\*\*

WPI Acc No: 1998-467146/199840

XRPX Acc No: N98-363977

Converting method of schema of database in relational form to equivalent schema in object oriented form - involves producing cross reference function based on SDS produced for each primary key in relation of input schema and then appropriate SQL commands are selected

Patent Assignee: FRIESEN O D (FRIE-I); GOLSHANI F (GOLS-I); HOWELL T H (HOWE-I)

Inventor: FRIESEN O D; GOLSHANI F; HOWELL T H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5797137	A	19980818	US 96624722	A	19960326	199840 B

Priority Applications (No Type Date): US 96624722 A 19960326

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
US 5797137	A		8	G06F-017/30	

Abstract (Basic): US 5797137 A

The method involves determining maximum number of attributes including primary key of each relation of input database **schema**. A SDS is created for each primary key according to number of **attributes**. Then, the SDS is **converted** into complex object of equivalent object orient **schema**.

Set of functions representing attributes are produced based on the identified data types of the complex object. Cross references are produced, based on the SDS for each relation and reference keys. Appropriate SQL command is selected to perform **mapping** between input



**database schema** in relational form to equivalent object oriented  
**schema** in functional data model form.

USE - For distributed database management system.

ADVANTAGE - Retrieves local **schemas** of other database from remote site.

Dwg.2/6

Title Terms: CONVERT; METHOD; DATABASE; RELATED; FORM; EQUIVALENT; OBJECT;  
ORIENT; FORM; PRODUCE; CROSS; REFERENCE; FUNCTION; BASED; PRODUCE;  
PRIMARY; KEY; RELATED; INPUT; APPROPRIATE; SQL; COMMAND; SELECT

Index Terms/Additional Words: SPECIAL; DATA; STRUCTURE

Patent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

12/5/15 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010857246 \*\*Image available\*\*

WPI Acc No: 1996-354199/199635

XRPX Acc No: N96-298749

**Data processor with address translation capability - has execution unit coupled to address translation buffer using translation mapping fields with replacement pointer allowing overwriting of fields when necessary**

Patent Assignee: MOTOROLA INC (MOTI )

Inventor: REININGER R; SLATON J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5539892	A	19960723	US 94284953	A	19940802	199635 B

Priority Applications (No Type Date): US 94284953 A 19940802

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
US 5539892	A		9	G06F-012/12	

Abstract (Basic): US 5539892 A

The processor has an execution unit generating an address coupled to an address translation buffer. The address translation buffer comprises numerous entries, each comprising: a set of N **translation mapping fields**, where N is an integer. A differing one of the set of **mapping fields** stores a differing one of a set of N translation mappings and a corresponding one of a set of N tags. The set of N **translation mapping fields** is indexed by a first subset of the address. The set of fields operates to output a selected one of the set fields if a second subset of the address is logically equivalent to the corresponding one of the set of N tags.

A replacement pointer field stores a pointer, indicating one of the set of **fields** to receive a **new translation mapping**. A replacement pointer control unit coupled to the address translation buffer, allows overwriting of a first value to the replacement pointer field responsive to a first state of a user-accessible control register during normal replacement operation of the address **translation** buffer. The replacement pointer **field** is operable to overwrite a second value to the replacement pointer field responsive to a second state of the user-accessible control register.

ADVANTAGE - Has translation mapping selection strategy for discarding less useful translation mappings.

Dwg.3/5

Title Terms: DATA; PROCESSOR; ADDRESS; TRANSLATION; CAPABLE; EXECUTE; UNIT;  
BUFFER; ADDRESS; TRANSLATION; BUFFER; TRANSLATION; MAP; FIELD; REPLACE;  
FIELD; ALLOW; FIELD; NECESSARY

Patent Class: T01

International Patent Class (Main): G06F-012/12

File Segment: EPI

12/5/16 (Item 12 from file: 350)  
ALOG File 350:Derwent WPIX  
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12/5/16 \*\*Image available\*\*  
WPI Acc No: 1995-403677/199551  
XRPX Acc No: N95-292310

**Mapping and analysis system for generating agricultural field maps -  
has airborne image spectrometer and camera for collecting spectral and  
spatial image data, for transmitting position of aircraft to computer via  
interface to generate geo-referenced spectral image data**

Patent Assignee: TRW INC (THOP )  
Inventor: ABEL R J; MACDONALD M C; WANG P S  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5467271	A	19951114	US 93169853	A	19931217	199551 B

Priority Applications (No Type Date): US 93169853 A 19931217

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5467271	A	20	G06F-017/40	

Abstract (Basic): US 5467271 A

The mapping and analysis system includes an  
air-based station e.g. aeroplane or satellite, which includes an  
image spectrometer and camera for measuring and providing spatial and  
spectral image data related to vegetation stress and soil  
characteristics for a portion of the farming field.

A position system provides signals indicating aircraft position,  
heading, pitch, roll and yaw in real-time to aircraft computer (40) via  
I/O interface (46). A data-link device connected to an antenna (34)  
receives and transmits data to a ground station (18). The computer  
geo-referencing unit synchronizes the position data with the spectral  
image data to generate geo-referenced spectral image data. The data is  
output to a display unit (48) for data collection management by a  
operator. The computer is used to mosaic or overlap images to **create**  
digital **maps** for large farming **field** either automatically or  
operator assisted. The digital maps are stored in memory (44) or  
transmitted via data link device to ground station for further analysis  
and output to farming machinery.

ADVANTAGES - Matches farm inputs of farming **field** to **current**  
soil and vegetation characteristics to optimise productivity. Analyses  
farming field for growing seasons. Categories image data in crop and  
soil status.

Dwg.2/8

Title Terms: MAP; ANALYSE; SYSTEM; GENERATE; AGRICULTURE; FIELD; MAP;  
AIRBORNE; IMAGE; SPECTROSCOPE; CAMERA; COLLECT; SPECTRAL; SPACE; IMAGE;  
DATA; TRANSMIT; POSITION; AIRCRAFT; COMPUTER; INTERFACE; GENERATE; GEO;  
REFERENCE; SPECTRAL; IMAGE; DATA

Derwent Class: S02; T01; X25

International Patent Class (Main): G06F-017/40

File Segment: EPI

12/5/17 (Item 13 from file: 350)  
ALOG File 350:Derwent WPIX  
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G08634448  
WPI Acc No: 1991-138478/199119  
XRPX Acc No: N91-106266

**Display attribute customisation - allows application programs to use  
single display panel data stream and customise display attribute effects**

Patent Assignee: ANONYMOUS (ANON )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RD 324065	A	19910410				199119 B

Priority Applications (No Type Date): RD 91324065 A 19910320

Abstract (Basic): RD 324065 A

The Display **Attribute Mapping** minor structure contains the following information. A flag indicates whether the display **attribute map** applies to colour displays only, or to any display type (monochrome or colour). This is useful if the application program has no knowledge about the display characteristics. A flag indicates whether a **new display attribute map** is being defined or not. If a **new display attribute map** is defined, a list of 32 display attribute values to be used follows. If not, the display **attribute map** is reset to default settings (no list of display attribute values is sent). An array of desired display attribute values, listed in order that corresponds to valid display attribute values. First display attribute value listed (in byte 4) will be used in place of '20'X display attribute value, second display attribute value listed (in byte 5) will be used in place of '21'X display attribute value, and so on.

The **attribute map** applies to the targeted display only (not to all displays attached to the WSC). The WSC will **translate** all display **attributes** in subsequent outbound data stream transmissions using the specified **attribute map**.

ADVANTAGE - Simplifies application development and improves the consistency of the user interface on monochrome and colour displays

Title Terms: DISPLAY; ATTRIBUTE; CUSTOMISATION; ALLOW; APPLY; PROGRAM; SINGLE; DISPLAY; PANEL; DATA; STREAM; DISPLAY; ATTRIBUTE; EFFECT

Derwent Class: T01

International Patent Class (Additional): G06F-000/01

File Segment: EPI

12/5/18 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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00'6'3378 \*\*Image available\*\*

Pat. No.: 1988-287310/198841

Pat. No.: N88-218013

Outline-driven data-base editing and retrieval system - uses outliner-style text editor permitting automatic generation of data entry forms for creation of records

Patent Assignee: CROWNINSHIELD SOFTW (CROW-N)

Inventor: BARROW M D; DAVIS M L; ROSE D

Number of Countries: 015 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 286110	A	19881012	EP 88105604	A	19880408	198841 B
AU 8814384	A	19881013				198849
US 4939689	A	19900703	US 8737384	A	19870409	199029
EP 286110	A3	19920610	EP 88105604	A	19880408	199332

Priority Applications (No Type Date): US 8737384 A 19870409

Cited Patents: No-SR.Pub; 4.Jnl.Ref; GB 2043311

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 286110 A E 373

Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE

Abstract (Basic): EP 286110 A

Data retrieval is driven through the manipulation of the outline to allow simple and complex queries without utilising a database programming language. A specialised global field is utilised in which identical **field** names may be repetitively **inserted** into several databases. In the data entry mode, a global value can be set and that value is automatically **inserted** into each database record containing the global **field** as they are **created** so that relations are made

automatically within the various databases.

In the data retrieval mode, the global field can be used to control the display of the outline to truncate the outline to only those categories and fields containing data for a specific global field value, to display only relevant outline portions. A **field mapper** allows the operator to see the changes in the outline and direct **old fields** to **new** names or positions and indicate **new fields** which are to be **inserted** into the existing records, all prior to execution of the changed outline in terms of data entry.

ADVANTAGE - Data entry and editing simplified and errors minimised because changes in outline are automatically reflected in data entry forms. Outline itself defines data-base structure. Latter can be changed without losing data.

15/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015988733 \*\*Image available\*\*  
WPI Acc No: 2004-146583/200415  
XRPX Acc No: N04-116808

**Relational database comparison system for corporate planning and project development, includes method of comparing two databases, where the structures conform to same or different version schemas and can be represented in XML format**

Patent Assignee: BEACH SOLUTIONS LTD (BEAC-N)  
Inventor: KEITH-HILL R M  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2391362	A	20040204	GB 200317336	A	20030724	200415 B

Priority Applications (No Type Date): GB 200217201 A 20020724

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2391362	A		52	G06F-017/30	

Abstract (Basic): GB 2391362 A

NOVELTY - A method of comparing first and second relational databases that are each comprised of a number of entities having one or more characteristics, the entities being grouped into a number of data classes in each relational database, each representative of a particular entity type. The structure of the first and

second databases may each be described by a **schema** and conform to **schemas** which can be substantially the same or different versions of the same **schema** and are capable of being represented in XML file format; the method comprising; (i) for each data class of the first and second relational databases, compiling a list representative of the entities occurring within that class and the **attributes** for each entity, where the compiling step includes

the steps of parsing and reviewing the databases for characters with an encoding incompatible with the parser, and translating any such character to an

equivalent character with compatible encoding. The parsing step comprises instantiating an object oriented class of appropriate type for each entity.; (ii) identifying and comparing corresponding data classes for each of the first and second relational databases, and (iii) identifying on the basis of the comparison differences between corresponding entities of the corresponding data classes. The identifying step additionally comprises identifying entities that have been added/deleted to one or other of the first and second relational databases

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) A database comparator.
- (2) A computer program.

USE - Relational database comparison system for use in corporate planning and project development where for example it might be necessary to keep track of changes in software specifications, product design, and production.

ADVANTAGE - Provides a system, which reliably and accurately identifies differences between databases. This invention also provides for the identification of the particular differences between corresponding entities of two databases. In addition, the compilation of lists is much less processor intensive than, for example, the complex algorithms employed in previous systems that generate semantic graphs and order database objects. Therefore this system can function more rapidly than prior inventions.

DESCRIPTION OF DRAWING(S) - The drawing illustrates the steps used in the relational database comparison system.

pp; 52 DwgNo 2/15

Title Terms: RELATED; DATABASE; COMPARE; SYSTEM; PLAN; PROJECT; DEVELOP;

METHOD; COMPARE; TWO; STRUCTURE; CONFORM; VERSION; CAN; REPRESENT; FORMAT  
Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

15/5/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015108725 \*\*Image available\*\*  
WPI Acc No: 2003-169244/200317  
XRPX Acc No: N03-133680

Generic object oriented description generation method in computer system,  
involves associating entries of source file with appropriate template in  
inheritance based schema  
Patent Assignee: MICROSOFT CORP (MICT ); NGUYEN A G (NGUY-I); WONG P W  
(WONG-I)

Inventor: NGUYEN A G; WONG P W  
Number of Countries: 028 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1271339	A2	20030102	EP 200213984	A	20020625	200317 B
US 20030055806	A1	20030320	US 2001896499	A	20010629	200323
JP 2003177915	A	20030627	JP 2002192638	A	20020701	200351

Priority Applications (No Type Date): US 2001896499 A 20010629

Parent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
EP 1271339	A2	E	21	G06F-017/21	
Regional States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LV MC MK NL PT RO SE SI TR					
US 20030055806	A1			G06F-007/00	
JP 2003177915	A		21	G06F-009/44	

Abstract (Basic): EP 1271339 A2

NOVELTY - A generic object oriented description of structure data (GDL) source file including entries whose properties are defined by an inheritance based **schema** and that **conforms** to a predefined metalanguage syntax, is provided. The **schema** includes a family of GDL templates. The entries are associated with an appropriate template of the family, to allow the entries to also be associated with other ancestral templates in the same family.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Computer readable medium comprising generic object oriented description generating program; and
- (2) Computer system.

USE - For organizing, defining and obtaining information associated with computer devices, abstract ideas and music, in computer system.

ADVANTAGE - GDL template allows features and **attributes** of a subject to be quickly and readily extended or modified by altering the source file.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram illustrating component and data flow involved in parsing process of information organizing and description method.

Fig. 21 DwgNo 3/5

Index Terms: OBJECT; ORIENT; DESCRIBE; GENERATE; METHOD; COMPUTER; SYSTEM; ASSOCIATE; ENTER; SOURCE; FILE; APPROPRIATE; TEMPLATE; BASED

Derwent Class: T01

International Patent Class (Main): G06F-007/00 ; G06F-009/44 ;  
G06F-017/21

International Patent Class (Additional): G06F-003/12 ; G06F-012/00

File Segment: EPI

15/5/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX

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014886708 \*\*Image available\*\*

WPI Acc No: 2002-707414/200276

XRFX Acc No: N02-557719

**Mapping DICOM specification into XML document by mapping table entries  
and formatting using XSLT templates**

Patent Assignee: HU J (HUJJ-I); LEE K P (LEEK-I); KONINK PHILIPS  
ELECTRONICS NV (PHIG )

Inventor: HU J; LEE K P

Number of Countries: 021 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200277896	A2	20021003	WO 2002IB653	A	20020305	200276 B
US 20020143727	A1	20021003	US 2001818716	A	20010327	200278

Priority Applications (No Type Date): US 2001818716 A 20010327

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200277896 A2 E 22 G06F-019/00

Designated States (National): JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MO NL PT SE TR

20020143727 A1 G06F-007/00

Abstract (Basic): WO 200277896 A2

NOVELTY - Method consists in mapping each entry of a DICOM (Digital Imaging and Communications in Medicine) table into the corresponding XML element, and outputting each XML element to the XML document in an output format that conforms to an XML document type definition or an XML **schema**. The XML element is formatted using XSLT templates and mapping is independent of the output format. The DICOM table corresponds to a DICOM IOD module table and the method includes forming an information entity element name by adding a first suffix to the name of the entity in the table, forming a module element name by adding a second suffix to the module identifier and forming a composite element that includes two XML elements for containing reference and usage data from the table for each module.

DETAILED DESCRIPTION - The table corresponds to a DICOM module **attributes** table or a macro **attributes** table, each **attribute** in the table being **mapped** to a composite element containing **attribute** name, tag, type and **attribute** description data from the table. There is an INDEPENDENT CLAIM for a DICOM to XML conversion system.

USE - Method is for modelling and representation of medical reports via the use of Digital Imaging and Communications in Medicine (DICOM) Structured Reporting.

ADVANTAGE - Method is flexible and extensible.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of a DICOM specification to XML DTD- **Schema** conversion system.

pp; 22 DwgNo 1/11

Title Terms: MAP; SPECIFICATION; DOCUMENT; MAP; TABLE; ENTER; FORMAT;  
TEMPLATE

Derwent Class: T01

International Patent Class (Main): G06F-007/00 ; G06F-019/00

File Segment: EPI

15/5/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014357953 \*\*Image available\*\*

WPI Acc No: 2002-178654/200223

XRFX Acc No: N02-135824

**Computer system for object identity and partitioning for user defined  
extents, has computer program with schema mapper for mapping  
between object attributes and fields in database table**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: BURROUGHS T K; LEE W D; LUEBBE S C  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6341289	B1	20020122	US 99306518	A	19990506	200223 B

Priority Applications (No Type Date): US 99306518 A 19990506

Invent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6341289	B1	19	G06F-017/00	

Abstract (Basic): US 6341289 B1

NOVELTY - The computer system (100) has a computer program stored in a memory (120) and executed by a processor (110). The computer program includes a **schema mapper** for **mapping** between object **attributes** and **fields** in a **database** table. The **schema mapper** defines the source of a partitioning key value and the partitioning key field in the database table for storing the partitioning key value.

DETAILED DESCRIPTION - The partitioning key value identifies the partition containing the object within a class of objects. The partition also defines the subclass of objects with the class.

INDEPENDENT CLAIMS are also included for the following:

- (a) the computer program;
- (b) and the **mapping** method between objects and **database** table used to persistently store objects.

USE - For object identity and partitioning for user defined extents.

ADVANTAGE - Allows transparent and flexible partitioning of created objects. Allows queries to be performed against partition without requiring user to have any specific knowledge of the partitioning structure. Provides customization and extension quality of framework mechanisms that are valuable to framework consumers because the cost of customizing or extending a framework is much less than the cost of replacing or reworking an existing solution. Allows maximum flexibility in application development and deployment.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of the computer system.

Computer system (100)

Processor (110)

Memory (120)

pp; 19 DwgNo 1/8

Title Terms: COMPUTER; SYSTEM; OBJECT; IDENTIFY; PARTITION; USER; DEFINE; EXTENT; COMPUTER; PROGRAM; MAP; MAP; OBJECT; **ATTRIBUTE** ; FIELD; DATABASE ; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/00

International Patent Class (Additional): G06F-007/00

File Segment: EPI

15/5/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013386058 \*\*Image available\*\*

WPI Acc No: 2000-557996/200051

XRPX Acc No: N00-412946

Query rewriting method for distributed directory services, involves formulating rewritten query to be compatible with schema of referee data source by referring a referral before submitting rewritten query

Patent Assignee: MICROSOFT CORP (MICT )

Inventor: LEACH P; WEIDER C

Number of Countries: 086 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200041098	A1	20000713	WO 99US17060	A	19990726	200051 B
AU 9953228	A	20000724	AU 9953228	A	19990726	200052
US 6490589	B1	20021203	US 98223542	A	19981230	200301



Priority Applications (No Type Date): US 98223542 A 19981230

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200041098 A1 E 35 G06F-017/30

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN  
CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK  
SL TJ TM TR TT UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9953228 A G06F-017/30 Based on patent WO 200041098

US 6490589 B1 G06F-017/00

Abstract (Basic): WO 200041098 A1

NOVELTY - The information indicating **mapping** of **schema** of data source (DS1-DS3) and corresponding **schema** of index server (IS2) is used to rewrite a query. A referral is referred for formulating rewritten query to be compatible with **schema** of referee data source before submitting the rewritten query.

DETAILED DESCRIPTION - The index servers are arranged in a hierarchy comprising multiple levels including a base level with each data source coupled to at least one base level index server. The rewritten query is formulated so as to omit any **attribute** absent in **schema** of referee data source. An INDEPENDENT CLAIM is also included for directory service system.

USE - Used for distributed directory services.

ADVANTAGE - Hierarchical arrangement of indexes allows queries to be directed to only those sources which fulfill the query thereby saving time. Concept of using indexes helps in efficient routing of queries.

DESCRIPTION OF DRAWING(S) - The figure shows the query rewriting system for distributed directory services.

Data source (DS1-DS3)

Index source (IS2)

pp; 35 DwgNo 4A/6

Title Terms: QUERY; REWRITING; METHOD; DISTRIBUTE; DIRECTORY; SERVICE;

FORMULATION; REWRITING; QUERY; COMPATIBLE; REFEREE; DATA; SOURCE; REFER;

SUBMIT; REWRITING; QUERY

Derwent Class: T01; W01

International Patent Class (Main): G06F-017/00 ; G06F-017/30

International Patent Class (Additional): H04L-029/12

File Segment: EPI

15/5/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013203489 \*\*Image available\*\*

WPI App No: 2000-375362/200032

WPI App No: N00-281920

High level data mapping system for computer, performs class and reference mapping of databases stored in computer using scheme mapping

Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: CHANG D T; LAU C; LEE T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6061515	A	20000509	US 94276747	A	19940718	200032 B
			US 97866374	A	19970530	

Priority Applications (No Type Date): US 94276747 A 19940718; US 97866374 A 19970530

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6061515 A 43 G06F-009/44 Cont of application US 94276747

Abstract (Basic): US 6061515 A

NOVELTY - The scheme mapping definition language, data stored in computer is mapped. Then both class mapping and reference mapping of data stored in the computer is carried out. The specific language having highest level of mapping is set as mapping data.

DETAILED DESCRIPTION - The **mapping language database** comprises keywords indicating the start and end of the mapping language algorithm, storage format type and addresses. The class **mapping language data embedding attribute mapping language**, comprises keywords indicating start and end of the class mapping language, class name, join condition and **attributes**. The **attribute mapping language data** comprises keywords indicating start and end of **attribute mapping language**, **attributes** table names and **columns**. The reference **mapping language data** comprises keywords indicating start and end of reference **mapping language**, reference name, table and **column** names. An INDEPENDENT CLAIM is also included for method of high level data mapping.

USE - For computer system, in **mapping various databases** like object oriented **database** using SMDL.

ADVANTAGE - Provides reliable aid to smart access, code generation and execution time support irrespective of type of non-relational database. Provides mappings between various object **schema** databases, thereby simplifies database management.

DESCRIPTION OF DRAWING(S) - The figure illustrates graphical user interfaces of smart **schema**.

pp; 43 DwgNo 7/27

Title Terms: HIGH; LEVEL; DATA; MAP; SYSTEM; COMPUTER; PERFORMANCE; CLASS; REFERENCE; MAP; STORAGE; COMPUTER; SCHEME; MAP

Derwent Class: T01

International Patent Class (Main): G06F-009/44

File Segment: EPI

15/5/15 (Item 15 from file: 350)

15/5/15 (R)File 350:Derwent WPIX

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01/7/33677 \*\*Image available\*\*

WPI Acc No: 1999-539794/199945

XRPX Acc No: N99-399990

**Computer implemented method for mapping object between object oriented schema and relational data store schema in business applications**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: BURROUGHS T K; LEE W D; ROGERS C A; ZABOROWSKI L J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5956730	A	19990921	US 97912020	A	19970815	199945 B

Priority Applications (No Type Date): US 97912020 A 19970815

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5956730	A	20	G06F-017/30	

Abstract (Basic): US 5956730 A

NOVELTY - A mapping software code defining a selection of class among several classes is generated in response to a value in tiebreaker column in high level language, where each class corresponds to one of the values.

DETAILED DESCRIPTION - Each object has a class and relational data store **schema** have **attribute** columns and tiebreaker column. An application program run-time call is initiated by handle, to an object and a base driver referencing. The object database driver accesses data elements from **attribute** columns of data store and associates data elements with instance variables of object in response to application program run-time call. An INDEPENDENT CLAIM is also included for the following:

(a) system for mapping object;

(b) computer program product

USE - For **mapping** object between object oriented **schema** and relational data store **schema** for business applications.

ADVANTAGE - The application program used the handle to complete the retrieval of entity from data store. Retrieval of entity with dependents is instantiated using tie breaker column.

DESCRIPTION OF DRAWING(S) - The figure shows **mapping** dependents between object **schema** and relational **schema**.

pp; 20 DwgNo 1/9

Title Terms: COMPUTER; IMPLEMENT; METHOD; MAP; OBJECT; OBJECT; ORIENT; RELATED; DATA; STORAGE; BUSINESS; APPLY

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

15/5/16 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012360861 \*\*Image available\*\*

WPI Acc No: 1999-166968/199914

Related WPI Acc No: 2000-671970

XRPX Acc No: N99-121680

**Object mapping method for database in object oriented environment**

Invent Assignee: NEXT SOFTWARE INC (NEXT-N)

Inventor: GREENFIELD J; UPSON L; WILLHITE D; WILLIAMSON R

Class: G06F Countries: 001 Number of Patents: 001

Patent Family:

Patent No.	Kind	Date	Applicat No	Kind	Date	Week
US 5873093	A	19990216	US 94353522	A	19941207	199914 B
			US 97864282	A	19970528	

Priority Applications (No Type Date): US 94353522 A 19941207; US 97864282 A 19970528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5873093	A		30	G06F-017/30	Cont of application US 94353522

Abstract (Basic): US 5873093 A

NOVELTY - A **schema** is defined for database independent of defining multiple object classes. A model is defined, which provides a **mapping** between **properties** of object classes and data of the defined **schema**, such that the **mapping** between the **schema** and object classes is transparent in object classes and **schema**.

DETAILED DESCRIPTION - The defined model has an entity having an **attribute** which is directly **mapped** to an item of data in the database or a derived **attribute** which is not directly **mapped** to an item of data in the database. Predetermined relation is defined between various entities defined for the model. An INDEPENDENT CLAIM is included for an apparatus for **mapping** objects to **database**.

USE - For object oriented DBMS applications in computer system.

ADVANTAGE - Defined model is used to **synchronize** object **properties** and data of **database**. Uses model to **map** object classes of existing application to new DBMS **schema** or vice versa. Creates **mapped** relationships between two entities, where relationships can be either unidirectional or bidirectional.

DESCRIPTION OF DRAWING(S) - The figure shows a flow chart explaining defining of model in object mapping method.

pp; 30 DwgNo 3/15

Title Terms: OBJECT; MAP; METHOD; DATABASE; OBJECT; ORIENT; ENVIRONMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07748262 \*\*Image available\*\*

METHOD AND DEVICE FOR PREPARING CONVERSION RULE FOR STRUCTURED DOCUMENT,  
CONVERSION RULE PREPARING PROGRAM, AND COMPUTER-READABLE RECORDING MEDIUM  
WITH THE PROGRAM RECORDED THEREON

PUB. NO.: 2003-242167 [JP 2003242167 A]  
PUBLISHED: August 29, 2003 (20030829)  
INVENTOR(s): CHOKAI YUKITERU  
KASUGA SHIRO  
KOBAYASHI NOBUYUKI  
SAKATA TETSUO  
APPLICANT(s): NIPPON TELEGR & TELEPH CORP (NTT)  
APPL. NO.: 2002-042073 [JP 200242073]  
FILED: February 19, 2002 (20020219)  
INTL CLASS: G06F-017/30 ; G06F-012/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a method and a device for preparing a conversion rule for a structured document for preparing the conversion rule for efficiently converting schemas between the plurality of structured documents with **different schemas**.

SOLUTION: When a conversion rule automatic generating part 201 receives, from a user terminal 100, the generation requirement for a conversion rule for converting the schemas between a plurality of structured documents, the respective schemas of the plurality of structured documents are acquired, and tag names are extracted from the respective schemas of the plurality of structured documents. For the respective tag names extracted from the plurality of structured documents, the degree of similarity between the respective tag names between the plurality of structured documents is calculated. For the respective tag names, a corresponding relation to the tag name with the highest similarity is added as the conversion rule to prepare the conversion rule for the schemas between the plurality of structured documents.

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21/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07181245 \*\*Image available\*\*

METADATA CONVERSION DEVICE, METADATA CONVERSION METHOD AND RECORDING MEDIUM

PUB. NO.: 2002-049636 [JP 2002049636 A]  
PUBLISHED: February 15, 2002 (20020215)  
INVENTOR(s): KOBAYAKAWA YUICHI  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 2000-234671 [JP 2000234671]  
FILED: August 02, 2000 (20000802)  
INTL CLASS: G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide metadata conversion device capable of converting metadata of different term systems by a small number of corresponding rules in a diversified and flexible manner.

SOLUTION: This metadata conversion device comprises the following: a metadata input/output part 101 which cuts out an attribute and an attribute value from metadata of conversion source composed of thesaurus whose attribute values have parentage or sibling relationship; an attribute conversion part 105 which converts the attribute into the attribute of **schema** of **different** term systems, using an attribute correspondence relation information storing part 103; a schema information storing part

which stores thesaurus of attributes of the conversion source and the conversion destination; an attribute value converting part 111 which converts the cut out attribute value into the attribute value of the schema using a nodes-between-thesauruses correspondence relation information storing part 109; and a thesaurus searching part 113 which searches for attribute values of high order/low order for the attribute value of the conversion source using a nodes-in-thesaurus hierarchical relation information storing part 115 which stores parentage of attribute values in the thesauruses.

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21/5/9 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015662038 \*\*Image available\*\*  
WPI Acc No: 2003-724225/200369  
XRPX Acc No: N03-579156

Document managing device for personal computer, retrieves document by collating input attribute value with stored attribute value which is defined by schema registered to selected folder

Patent Assignee: CANON KK (CANO )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002091979	A	20020329	JP 2000285299	A	20000920	200369 B

Priority Applications (No Type Date): JP 2000285299 A 20000920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002091979	A		10	G06F-017/30	

Abstract (Basic): JP 2002091979 A

NOVELTY - A registering unit (105) registers an attribute value defined by a schema registered with respect to a selected folder which includes a document and stores in a storage unit (106). A retrieving unit (109) retrieves a document by collating an attribute value from an input unit (108) with stored attribute value.

USE - For managing documents in personal computer.

ADVANTAGE - The documents which are included in multiple folders of different schemas can be retrieved easily.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the document managing device. (Drawing includes non- English language text).

schema registering unit (102)  
attribute value registering unit (105)  
storage unit (106)  
input unit (108)  
document retrieving unit (109)

Fig. 10 DwgNo 1/1

Index Terms: DOCUMENT; MANAGE; DEVICE; PERSON; COMPUTER; RETRIEVAL;  
COLLATE; INPUT; ATTRIBUTE; VALUE; STORAGE; ATTRIBUTE; VALUE;  
DEFINE; REGISTER; SELECT; FOLDER

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/11 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015623536 \*\*Image available\*\*  
WPI Acc No: 2003-585684/200355  
XRPX Acc No: N03-466285

Document conversion system, has template generator for generating

conversion template with conversion rule and structure converter that performs document conversion process using conversion template

Patent Assignee: NTT DOCOMO INC (NITE ); NTT IDO TSUSHINMO KK (NITE )

Inventor: ISHIKAWA N; KATO T; SUMINO H; SUZUKI H; UENO H

Number of Countries: 035 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030093760	A1	20030515	US 2002291568	A	20021112	200355 B
CA 2411459	A1	20030512	CA 2411459	A	20021108	200355
CN 1419211	A	20030521	CN 2002149391	A	20021112	200355
EP 1313032	A1	20030521	EP 200225041	A	20021111	200355
JP 2003150586	A	20030523	JP 2001346736	A	20011112	200355
KR 2003040113	A	20030522	KR 200270022	A	20021112	200360

Priority Applications (No Type Date): JP 2001346736 A 20011112

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030093760 A1 24 G06F-015/00

CA 2411459 A1 E G06F-017/20

CN 1419211 A G06F-017/27

EP 1313032 A1 E G06F-017/22

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB

GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2003150586 A 14 G06F-017/21

KR 2003040113 A G06F-017/21

Abstract (Basic): US 20030093760 A1

NOVELTY - The system has a definition analyzer (17a) for analyzing two document **schemas** and extracting a **different** document type definition. A template generator (17b) generating a conversion template has a conversion rule to prevent a structured document being contradictory to a schema, based on the analysis result. A structure converter (17c) performs document conversion process using the conversion template.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a document conversion method.

USE - Used for converting XML structured documents to HTML structured documents.

ADVANTAGE - The system reduces the total time required for document conversion by outputting an appropriate document data that matches with a document type definition after conversion.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a computer having document conversion system.

Definition analyzer (17a)

Template generator (17b)

Structure converter. (17c)

pp: 24 DwgNo 8/13

Title Terms: DOCUMENT; CONVERT; SYSTEM; TEMPLATE; GENERATOR; GENERATE;

CONVERT; TEMPLATE; CONVERT; RULE; STRUCTURE; CONVERTER; PERFORMANCE;

DOCUMENT; CONVERT; PROCESS; CONVERT; TEMPLATE

Derwent Class: T01

International Patent Class (Main): G06F-015/00 ; G06F-017/20 ;

G06F-017/21 ; G06F-017/22 ; G06F-017/27

International Patent Class (Additional): G06F-009/06 ; G06F-012/00

File Segment: EPI

21/5/13 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014704061 \*\*Image available\*\*

WPI Acc No: 2002-524765/200256

XRPX Acc No: N02-415622

Search device for use in enterprise, receives data item common to schema of multiple databases for producing input item

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
JP 2002175319 A 20020621 JP 2000370670 A 20001205 200256 B

Priority Applications (No Type Date): JP 2000370670 A 20001205

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2002175319 A 14 G06F-017/30

Abstract (Basic): JP 2002175319 A

NOVELTY - A condition input unit (120) receives a data item from a management server (200) common to schema of databases for producing an input item for inputting search conditions. The management server in response to a search request from a search unit (130) and according to search conditions searches a related document information stored in a database (240) and transmits the searched result to a search request origin.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Search method; and
- (2) Recorded medium storing search process.

USE - For use in enterprise.

ADVANTAGE - Provides a search device capable of searching the document information, even when the **schema** of the databases are **different**.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the search device. (Drawing includes Non-English language text).

Condition input unit (120)

Search unit (130)

Management server (200)

Database (240)

pp; 14 DwgNo 1/12

Title Terms: SEARCH; DEVICE; RECEIVE; DATA; ITEM; COMMON; MULTIPLE; PRODUCE  
; INPUT; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-012/00

File Segment: EPI

21/5/14 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014412210 \*\*Image available\*\*

WPI Acc No: 2002-232913/200229

XRPX Acc No: N02-179298

**Meta-data converter converts input attribute value into attribute value of schema based on attribute compatibility relationship information stored in memory**

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week  
JP 2002049636 A 20020215 JP 2000234671 A 20000802 200229 B

Priority Applications (No Type Date): JP 2000234671 A 20000802

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2002049636 A 19 G06F-017/30

Abstract (Basic): JP 2002049636 A

NOVELTY - A converter (105) converts attribute information on preset system into attribute information on other system with **different schema**, based on attribute compatibility relationship between attribute information included in meta-data of two systems, stored in a memory (103). An attribute value converter (111) converts input attribute value into another attribute value of schema, based on

attribute value compatibility relationship.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Meta-data conversion method;

(b) Recorded medium recorded with program for meta-data conversion

USE - Meta-data converter for language translation.

ADVANTAGE - Enables conversion of meta-data to various meta-data with different term system, flexibly with reduced number of compatibility rules.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the meta-data converter. (Drawing includes non-English language text).

Memory (103)

Attribute converter (105)

Attribute value converter (111)

pp; 19 DwgNo 2/12

Title Terms: META; DATA; CONVERTER; CONVERT; INPUT; ATTRIBUTE; VALUE; ATTRIBUTE; VALUE; BASED; ATTRIBUTE; COMPATIBLE; RELATED; INFORMATION; STORAGE; MEMORY

Patent Class: T01

Patent Class (Main): G06F-017/30

Patent Class: EPI

21/5/17 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013652014 \*\*Image available\*\*

WPI Acc No: 2001-136226/200114

Related WPI Acc No: 2001-482069

XRPX Acc No: N01-099043

Data supply method for computer application involves converting stored data from first to second format to create target instance which is then supplied to application that requested for stored data

Patent Assignee: ORACLE CORP (ORAC-N)

Inventor: KOTSOVOLOS S M; KRISHNASWAMY S; NGUYEN T A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6119130	A	20000912	US 96624191	A	19960328	200114 B

Priority Applications (No Type Date): US 96624191 A 19960328

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6119130 A 21 G06F-017/30

Patent (Basic): US 6119130 A

ABSTRACT - When a request to supply stored data to an application is received, the format in which the data is stored and another format in which the application expects to receive the stored data are determined. A target instance of the stored data is created by converting the stored data from the first to the second format. The target instance is then supplied to the application.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a computer-readable medium;

(b) and a computer system.

USE - For computer application.

ADVANTAGE - Allows schema evolution to occur without making underlying data inaccessible during conversion period. Allows software to access data even when format of data is based on different schema version supported and expected by software.

DESCRIPTION OF DRAWING(S) - The figure is the flowchart illustrating the steps performed when an application accesses data.

pp; 21 DwgNo 5/5

Title Terms: DATA; SUPPLY; METHOD; COMPUTER; APPLY; CONVERT; STORAGE; DATA; FIRST; SECOND; FORMAT; TARGET; INSTANCE; SUPPLY; APPLY; REQUEST; STORAGE; DATA



Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

21/5/18 (Item 11 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011945094 \*\*Image available\*\*  
WPI Acc No: 1998-362004/199831  
WPIX Acc No: N98-282656

Multi-dimensional representation generation system - includes meta-data  
manager extracting source data with database connectivity engine

Inventor: ANWAR M S (ANWA-I)  
Applicant: ANWAR M S  
Number of Countries: 081 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5767854	A	19980616	US 96721899	A	19960927	199831 B
WO 9944164	A1	19990902	WO 98US3736	A	19980224	199943 N
AU 9865371	A	19990915	AU 9865371	A	19980224	200004 N
			WO 98US3736	A	19980224	

Priority Applications (No Type Date): US 96721899 A 19960927; WO 98US3736 A  
19980224; AU 9865371 A 19980224

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5767854	A		53	G06F-003/14	
AU 9865371	A			G06F-017/60	Based on patent WO 9944164
WO 9944164	A1	E		G06F-017/60	

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT UA UG UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE  
IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

Abstract (Basic): US 5767854 A

The generation system includes a meta-data manager extracting data from a data source. An IO broker coordinates IO between the system and the data sources. Import and export routines import and export information to and from data sources and the system and within the system. A database connectivity engine for communicating with a data source manager for processing of data source queries. A number of dynamically generated SQL routines to optimize runtime performance. A query estimate manager for estimating the time to retrieve desired information from a data source. Size and time keeping routines for computer resource allocation and timing. A data carousel or object controller for generating and manipulating data objects. A selection exception agent. A spreadsheet controller for assigning spreadsheet functionality of one or more side of a n-gon. A schema synchronization manager for consolidating data **schema** and logical **schema** from **different** data sources. A threads manager. A macro and/or scripting language manager for executing multi-step user defined operations. an API set.

An analytic engine for performing routine analyses on an n-gonal representation of data. Manipulation routines for manipulating the data objects within the n-gonal representation. Filtering and/or exception routines for masking undesired information or highlighting desired information. A communication manager for communicating with other programs and systems. The user interface includes a window generator, a n-gon generator, a n-gonal solid generator, n-gon manipulation routines, user dialog boxes, user scroll bars, a tool bar and a relationship generator.

ADVANTAGE - Provides fast efficient and understandable retrieval, display, manipulation, analysis and storage of multi-dimensional data.

Title Terms: MULTI; DIMENSION; REPRESENT; GENERATE; SYSTEM; META; DATA;  
MANAGE; EXTRACT; SOURCE; DATA; DATABASE; CONNECT; ENGINE  
Derwent Class: T01  
International Patent Class (Main): G06F-003/14 ; G06F-017/60  
File Segment: EPI

21/5/19 (Item 12 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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010919867 \*\*Image available\*\*  
WPI Acc No: 1996-416818/199642  
XRPX Acc No: N96-351104

**Organisation system of schema conversion unit - has unit module provided  
to transform schema of central information model and local information  
model to hide access information difference of each database**

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8202597	A	19960809	JP 959036	A	19950124	199642 B

Priority Applications (No Type Date): JP 959036 A 19950124

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
JP 8202597	A		12	G06F-012/00	

Abstract (Basic): JP 8202597 A

The system has several local information models (2a,2b,2c) built in each database (1a,1b,1c) connected to an information transfer network (4). Each local information model is able access other information model through a unification information model (3) provided in the information transfer network.

A schema conversion unit (5a,5b,5c) performs the schema transformation of the unification information model and the local information model. The unit hides the difference of the information access of each database using a unit module that contains the **different schema** of each information model.

USE/ADVANTAGE - For changing data structure of each database to perform communication. Reduces influence of reorganization on schema conversion unit by dynamic change of information model.

Dwg.1/10

Title Terms: ORGANISE; SYSTEM; CONVERT; UNIT; UNIT; MODULE; TRANSFORM;  
CENTRAL; INFORMATION; MODEL; LOCAL; INFORMATION; MODEL; HIDE; ACCESS;  
INFORMATION; DIFFER; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-012/00

International Patent Class (Additional): G06F-017/30

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2004/Mar W04

(c) 2004 European Patent Office

Pub. No. 349:PCT FULLTEXT 1979-2002/UB=20040401,UT=20040325

(c) 2004 WIPO/Univentio

Item	Items	Description
S1	1004337	ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR FIELD? ? OR COLUMN? ?
S2	181356	DIRECTORY OR DIRECTORIES OR SCHEMA? ? OR DATABASE? ? OR DATA()BASE? ? OR REPOSITOR???
S3	21188	S1:S2(5N)(MAP???? OR SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? OR CONFORM?)
S4	47616	S1(5N)(NEW?? OR CURRENT)
S5	1615	S1(5N)(OLD??? OR PRE()EXIST??? OR PREEXIST???)
S6	28950	S1(7N)(CONVERT? OR CONVERSION? OR REFORMAT? OR RE()FORMAT? OR TRANSLAT? OR TRANSFORM?)
S7	67943	S1(7N)(INSERT??? OR ADD??? OR CREAT???)
S8	328	DIFFERENT(5N)SCHEMA? ?
S9	40	S3(100N)S8
S10	6376	(RULE? ? OR POLICY OR POLICIES OR FLAG? ?)(7N)(MAP???? OR - SYNC??? OR SYNCHRONIZ?????? OR SYNCHRONIS?????? OR RECONCIL? - OR CONFORM?)
S11	83	S10(50N)S6:S7(50N)(S3 OR SCHEMA? ?)
S12	67	S11 AND IC=G06F

12/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01372007

Method and apparatus for mapping one catalog into another catalog  
Methode und Gerat zum Abbilden eines Kataloges auf einem anderen Katalog  
Procede et appareil permettant de mettre en correspondance deux catalogues  
PATENT ASSIGNEE:

Complisite Technology Inc., (2870051), 10955 Westmoor Drive, Suite 100,  
Westminster, Colorado 80021, (US), (Applicant designated States: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46022), Potts, Kerr & Co. 15, Hamilton Square,  
Birkenhead Merseyside CH41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 1168201 A2 020102 (Basic)  
EP 1168201 A3 031119

APPLICATION (CC, No, Date): EP 2001305421 010622;

PRIORITY (CC, No, Date): US 608784 000630

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-017/60

ABSTRACT WORD COUNT: 120

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

TEXT AVAILABILITY:

Document	Text	Language	Update	Word Count
CLAIMS A	(English)	200201	444	
SPEC A	(English)	200201	4374	
Total word count - document A				4818
Total word count - document B				0
Total word count - documents A + B				4818

INTERNATIONAL PATENT CLASS: G06F-017/30 ...

... G06F-017/60

...SPECIFICATION the table be expressed as a sequence of XML (Extensible Markup Language) Statements.

The default conversion can take many forms, differing in complexity. A straightforward **conversion** is to change the value for an **attribute** or category for a particular item to a different value for the same attribute or category for the item. For example, the first catalog may...

...use "Pens" instead. This is a matter of user preference and the present invention, through the mapping tables, can accommodate many different style preferences. The **rule** then **maps** all the category values that are "Writing Instruments" into "Pens." The same principle applies when converting the catalog into a different language. Each value will be mapped directly into a selected corresponding expression in the language of the second catalog. For example, the color **attribute** value "Black" **maps** to "Svart" and the color **attribute** "Brown" **maps** to "Brun." The table will provide **mapping rules** for all of the **conversions** for all anticipated values of the relevant **attribute**. The same principle also applies to the use of abbreviations and the use of case. The table for ... from may require that "cc." be...

12/3, K/58 (Item 47 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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00579159 \*\*Image available\*\*

**METHOD FOR PROVIDING A REVERSE STAR SCHEMA DATA MODEL**

**PROCEDE PERMETTANT DE REALISER UN MODELE DE DONNEES POUR SCHEMA EN ETOILE  
INVERSEE**

Patent Applicant/Assignee:

METAEDGE CORPORATION,  
CHEN Li-Wen,  
ORTIZ Juan J,

Inventor(s):

CHEN Li-Wen,  
ORTIZ Juan J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200042532 A1 20000720 (WO 0042532)

Application: WO 2000US906 20000113 (PCT/WO US0000906)

Priority Application: US 99116086 19990115; US 99306677 19990506; US  
99306650 19990506; US 99306693 19990506

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG US US US US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ

UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT

LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 11569

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Claims

**Detailed Description**

... activity components. A step of selecting data tables and attributes that will comprise the source of a set of data tables having a particular data **schema** and attributes is also included in the method.

The method can also include steps of determining one or more attributes based on data types in source tables and primary and foreign keys. A step of creating one or more databases from the **schema** is also part of the method. The database can be a customer data warehouse, and the like. Creating data movement **mapping rules** can also be part of the method. Such **mapping rules** can provide information about **translation** of information in tables and **attributes** of data sources to the data warehouse.

In an embodiment according to the present invention, the method also includes providing users the capability to define...be used without departing from the scope of the present invention.

In a step 414, a customer-centric data warehouse database is created from the **schema** created in step 411. The data warehouse builder 100 can construct the customer-centric data warehouse based upon the **schema** 403 and database configuration information provided by a user. The data warehouse builder employs database commands and programming interfaces to accomplish building the data warehouse.

In a step 415, a plurality of data movement **mapping rules** is created.

**Mapping rules** provide information about **translation** of information in tables and **attributes** of data sources, such as data sources 101, to a customer-centric data warehouse, such as the customer centric data warehouse created in step...

**Claim**

... one of a plurality of data tables and at least one of a plurality of attributes of said data tables to form a data **schema**, wherein said data

schema

6 is a reverse star data schema ;

7 determining at least one of a plurality of attributes based on data types of

8 tables of said data source;

9 determining for said attributes at least one of a plurality of primary keys;

creating a data warehouse database from said data schema ;

10 providing at least one of a plurality of data mapping rules , said mapping

rules providing translation information for tables and attributes from said data sources to said data warehouse.

25 The method of claim 24 further comprising defining for said attributes at least one of a...

12/3,K/59 (Item 48 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00543747

OBJECT TO RELATIONAL DATABASE MAPPING INFRASTRUCTURE IN A CUSTOMER CARE AND BILLING SYSTEM

INFRASTRUCTURE POUR MISE EN CORRESPONDANCE D'OBJETS AVEC UNE BASE DE DONNEES RELATIONNELLE DANS UN SYSTEME DE SOINS ET DE FACTURATION CLIENTS

Patent Applicant/Assignee:

AMERICAN MANAGEMENT SYSTEMS INCORPORATED,  
ATKINS Stephan,  
HOHMANN Andreas,  
BALDWIN James,  
SCHMELZ Frank,

Inventor(s):

ATKINS Stephan,  
HOHMANN Andreas,  
BALDWIN James,  
SCHMELZ Frank,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200007120 A1 20000210 (WO 0007120)

Application: WO 99US16765 19990726 (PCT/WO US9916765)

Priority Application: US 9894459 19980729; US 99353591 19990715

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 8413

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... subsection of another tree. An example for this are two subclasses where

both mapping trees refer to the parent class mapping tree to include the mapping for the inherited attributes . Each node in turn represents the

mapping information of a primitive attribute (numeric, string, date)

... data structure (object, list). The tree is used at run-time to map the object to and from the database...representing complex data structures refer to sub-nodes to break down the complex structure to primitive attributes. During initialization, for each node representing a primitive attribute , a related database field object is created.

The infrastructure provides a class named CdoDbField to provide the functionality required for database field objects. The database field object corresponds directly to a database column and refers to the buffer used for the particular database **column**. This buffer is **created** during the initialization phase for each **database field object created**. The **mapping** process traverses the tree **SUBSTITUTE SHEET ( RULE 26)** and for each node representing a primitive **attribute**, the **mapping** for the particular **attribute** is performed by the node and associated database field object. The nodes provide the functionality or methods needed to extract data from the object or...

12/3,K/60 (Item 49 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00520695 \*\*Image available\*\*

**METHOD AND SYSTEM FOR MIGRATING DATA**  
**PROCEDE ET SYSTEME DE TRANSFERT DE DONNEES**

Patent Applicant/Assignee:

SAGE IMPLEMENTATIONS L L C,

Inventor(s):

ABRAMS Helene G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9952047 A1 19991014

Application: WO 99US7569 19990406 (PCT/WO US9907569)

Priority Application: US 9856360 19980407

Designated States: AU CA DE GB IL JP MX AT BE CH CY DE DK ES FI FR GB GR IE

IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 12054

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... the destination  
 tables.

is 3. Create Templates for Data Mapping

The Data Map Architect allows the user to interactively create templates to govern mapping, **translating**, **transforming** the data in the **fields** of the source data to the fields in the destination table without coding. These templates use predefined data migration patterns and logical operators to provide...

...the principles

of relational database design to enforce pre-defined Data Migration Rules templates. Using an aggregation of the pattern templates created by the Data **Map** Architect, the Data Migration **Rules** templates, and intelligence about the structure of the destination tables, the Update Processor dynamically generates and spawns a set of instructions that manipulate the data and move it from the temporary tables to the Intermediate Tables and ultimately to the Destination Tables.

The Update Processor groups the templates into batches, **adds fields** for processing control, and **creates** and maintains control files that monitor the data migration process. Because the Update Processor already knows the data **schema** of the destination tables (including required validations and dependency rules

12/3,K/61 (Item 50 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00519409 \*\*Image available\*\*

**TRANSFERRING RECORDS BETWEEN TWO DATABASES**  
**TRANSFERT D'ARTICLES ENTRE DEUX BASES DE DONNEES**

Patent Applicant/Assignee:

PUMA TECHNOLOGY INC,

Inventor(s):

CHAMPAGNE Darryl G,

WALEY Robert C,

WALANT Glen A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9950761 A1 19991007

Application: WO 99US6273 19990324 (PCT/WO US9906273)

Priority Application: US 9852769 19980331

Designated States: JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 8922

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... categories

of the fields in the record structure of the one of the first and second databases can be classified into a plurality of **mapping** classes and the **fields** of the first database are correlated to the second plurality of the fields of the second **database** based on the plurality of **mapping** classes. mapping rules are applied to the plurality of **mapping** classes to correlate the **fields**.

5 One of the **mapping** rules can indicate that **fields** of the one of the databases having a selected class, if absent in the other one of the **databases**, are to be **mapped** to **fields** having a selected class.

... of the first and second databases are characterized by having selected properties and the identifying information identifies the selected properties of the fields of one of the first and second databases according to the selected protocol. During **translation**, the data in the **fields** is then modified based on the identified properties. The identifying information can be transmitted to a computer program where the computer program correlates the fields of the first and second **databases** to establish the **field map**. The transmitted information may be in a format according to a selected protocol and then be converted into the identifying information.

Establishing the data transfer...

12/3,K/62 (Item 51 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00441825 \*\*Image available\*\*

**METHOD AND APPARATUS FOR ACCESSING ON-LINE STORES**  
**PROCEDE ET APPAREIL PERMETTANT D'ACCEDER A DES BOUTIQUES EN DIRECT**

Patent Applicant/Assignee:

THE BOARD OF REGENTS OF THE UNIVERSITY OF WASHINGTON,

...





2, Field Type,  
3, Field Limitations.

4, No Reconcile Flag .

6, Key. Field Flag .

7, Mapped Field Flag .

Field name is the name given to the field which the Translator for this Application uses. This name may also be the name used by the Application. Field Type identifies to the Synchronizer the nature of the data in a field, e.g., Data, Time, Boolean, Text, Number, or Binary. The Field Name does not supply this information to the Synchronizer. Field Limitations identifies the various limitations the database manager imposes on the

fields of a field. These limitations include: maximum length of text fields...

...of last synchronization. It contains the history of the previous synchronization which is necessary for use with the current synchronization in case of Incremental

synchronization. Records from the A - Database and B-Database are analyzed against the records of the history file to determine the changes, additions, and deletions in each of two databases since last

synchronization and whether additions, deletions, or updates need to be done to the records of the databases. Referring to Fig. 5, in steps 200-201, the Synchronizer loads the appropriate History file to be loaded. If

Synchronization from Scratch flag is set, the History File is deleted (step 203). If no History File is found, the synchronization will proceed as if it was a...

...from scratch because the

differences indicate that the History File records will not properly match the database records (steps 206-209).

In step 210, the Synchronizer uses the Field -List for database B to create the Workspace 16. It is a large record array which the Synchronizer uses during synchronization. Referring to Fig. 2. Workspace 16 consist of two...

12/3,K/64 (Item 53 from file: 349)

FILE(349)File 349:PCT FULLTEXT

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00392498 \*\*Image available\*\*

SYSTEM AND APPARATUS FOR LOADING AND RETRIEVING INFORMATION

SYSTEME ET APPAREIL POUR LE CHARGEMENT ET L'EXTRACTION D'INFORMATIONS

Patent Applicant/Assignee:

INFORMATION PROJECTS GROUP INC,

Inventor(s):

BALLURIO Keith B,

EDESTEIN Matthew R,

POCKETT Brian B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9733241 A1 19970912

Application: WO 97US3615 19970305 (PCT/WO US9703615)

Priority Application: US 96610945 19960305

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB

GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ

PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN GH KE LS MW SD SZ UG

AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL

PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 4197  
Main International Patent Class: G06F-017/30  
Fulltext Availability:  
Detailed Description

#### Detailed Description

... sequence for Record IDs. The DMR Sequencer 23 returns a unique identifier for each DMR to be created by the DMR Creator 22. The DMR Creator 22 establishes the system fields for a DMR, such as Term, Record Identifier, Record Type, Root Record Identifier, and Aspect. These fields are also sent to Block Creator 28.

The source fields used in the source data 20 are sent from the mapper 21 to the mapper 24. The mapper 24 places look-up references to data in the Chain-1 data array based on Mapper rules and the source field names. Field names are stored inside the Root block of that field's DMR. A Chain-1 data array element may be forcibly linked to...

12/3,K/65 (Item 54 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00376923

#### STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION

Patent Applicant/Assignee:

HYPERMED LTD,  
OREN Avraham,  
OLCHA Lev,  
KOWALSKI Nahum,  
MARGULYAN Rita,

Inventor(s):

OREN Avraham,  
OLCHA Lev,  
KOWALSKI Nahum,  
MARGULYAN Rita,

Country and Priority Information (Country, Number, Date):

Patent: WO 9717666 A2 19970515  
Application: WO 96IL131 19961023 (PCT/WO IL9600131)  
Priority Application: US 95551929 19951023

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB  
GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM  
AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 263802

Main International Patent Class: G06F-017/30  
International Patent Class: G06F-17:21  
Fulltext Availability:  
Detailed Description

#### Detailed Description

... FAILURE = 32003

'Copy current message to compose Global Const MAPI-E-DISK-FULL  
buffer = 32004

Global Const MESSAGE COMPOSE Global Const

=6 'Initialize compose buffer MAPI - E-INSUFFICIENT-MEMOR  
(previous Y = 32005

Global Const

API is lost MAPI - E-ACCESS-DENIED = 32006

Global Const MESSAGE REPLY 7 Global Const

'Compose buffer as REPLY MAPI - E-TOO -MANY-SESSIONS  
Global Const 32008

MESSAGE REPLYALL = 8 Global Const

'Fill Compose buffer as REPLY ALL MAPI - E-TOO -MANY-FILES

```

Global Const...

...Fill Compose buffer as Global Const
MESSAGE MAPI - E-TOO-MANY-RECIPIENT
Global Const MESSAGE-DELETE S = 32010
Delete current message Global Const
Global Const MAPI - E-ATTACHMENT-NOT-FO
MESSAGE SHOWADBOOK=11 UND = 32011
Show Address book Global Const
Global Const MAPI - E-ATTACHMENT-OPENJ
MESSAGE-SHOWDETAILS = 12 AILURE = 32012...

...15 MAPI-E-NO-MESSAGES = 32016
Delete current message Global Const
MAPI - E-INVALID-MESSAGE
32017
.....

97
SUBSTITUTE SHEET (RULE 26)
Global Const Global Const
MAPI -E-TEXT-TOO-LARGE CONTROL-E-NO-RECIPIENTS
32018 32057
Global Const Global Const
MAPI -E-INVALID-SESSION CONTROL-E-NO-ATTACHMENTS
32019 32058
Global Const
MAPI E TYPE NOT SUPPORTED
32020 .....

Global Const ' MISCELLANEOUS GLOBAL
MAPI -E-AMBIGUOUS-RECIPIENT CONSTANT DECLARATIONS
32021 (MAPI CONTROLS)
Global Const .....

MAPI -E-MESSAGE-IN-USE...

```

12/3,K/66 (Item 55 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00294023  
SEMANTIC OBJECT MODELING SYSTEM FOR CREATING RELATIONAL DATABASE SCHEMAS  
SYSTEME DE MODELISATION D'OBJETS SEMANTIQUES POUR CREER DES SCHEMAS DE BASE  
DE DONNEES RELATIONNELLES  
Agent Applicant/Assignee:  
KALL DATA INCORPORATED,  
KROENKE David M,  
OLDS Christopher C,  
KAWAI Kenju,  
EGGEBROTEN Lee I,  
Inventor(s):  
KROENKE David M,  
OLDS Christopher C,  
KAWAI Kenju,  
EGGEBROTEN Lee I,  
Agent and Priority Information (Country, Number, Date):  
Agent: WO 9512172 A1 19950504  
Application: WO 94US10355 19940913 (PCT/WO US9410355)  
Priority Application: US 93145997 19931029  
Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU  
JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE  
SI SK TJ TT UA US UZ VN KE MW SD AT BE CH DE DK ES FR GB GR IE IT LU MC  
NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG  
Publication Language: English  
Fulltext Word Count: 22341

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... the user to identify the type of data to be placed in each column. If more than one table is required for defining the database **schema**, the user must create each additional table and define a key field or attribute that is common to two or more tables in order to...of each company owned, a purchase price, a purchase date, a price-to-earnings ratio, etc. By requiring the user to define relational tables in **conformance** with rigid rules, the commercial **database** program forces the user to think of and characterize the data to be stored in a way that is unnatural.

Therefore, there is a need...

12/3,K/67 (Item 56 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00293338 \*\*Image available\*\*

DATABASE USING TABLE ROTATION AND BIMAPPED QUERIES

BASE DE DONNEES A ROTATION DE TABLES ET A INTERROGATIONS EN MODE POINT

Patent Applicant/Assignee:

EDC INC,

Inventor(s):

EMERSON Michael Gene,

WESTMAN Kelly Reed,

PILLAI Sushil,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9511487 A1 19950427

Application: WO 94US12074 19941024 (PCT/WO US9412074)

Priority Application: US 93141285 19931022

Designated States: CA GB

Publication Language: English

Fulltext Word Count: 85937

Main International Patent Class: G06F-017/00

Subclass Patent Class: G06F-17:30 ...

... G06F-19:00

Fulltext Availability:

Detailed Description

Detailed Description

... access

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jpro

acv7 r Map addresses - customer-procuct map Count for

OPENMAPFILE.UNMAPCLOSE 'I

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map. ls map addresses - purchase-procuct map count for

OPENMAPFILE.UNMAPCLOSE '/'

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)nern int cus pro

map. r O=not mapped. I =Mapped. customer to product map count data of

35 :xlern int pur...